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INTERCOM

Volume 26, Number 1

Teamsters OK new agreement

Members of Teamsters Local Union No. 8 employed by Penn State have ratified a new collective bargaining agreement with the University to replace the current agreement, which expired June 30.

Teamsters Local Union No. 8 represents the bargaining unit consisting of approximately 2,600 technical service employees at all University locations throughout the Commonwealth.

Earl Lutz, president of Teamsters Local Union No. 8, announced the decision Wednesday afternoon after the count of mail ballots by Union members to accept or reject the offer made by the University.

The new agreement is effective July 1 and covers the three-year period through June 30, 1999. It provides for a 3 percent wage increase, effective July 1, and additional 2.75 percent wage increases effective with the second and third years of the agreement.

Other negotiated items of the agreement include the University's health care contribution rates and certain modifications in working conditions.

President Graham B. Spanier said he was pleased the negotiations had been concluded successfully with the acceptance of the agreement by the union membership.

State of the University address Sept. 6

President Graham B. Spanier will present the annual State of the University Address at 4 p.m. on Friday, Sept. 6, in Eisenhower Auditorium on the University Park Campus. The address will also be broadcast live via local television downlink to all campuses. All faculty, staff and students are encouraged to attend.

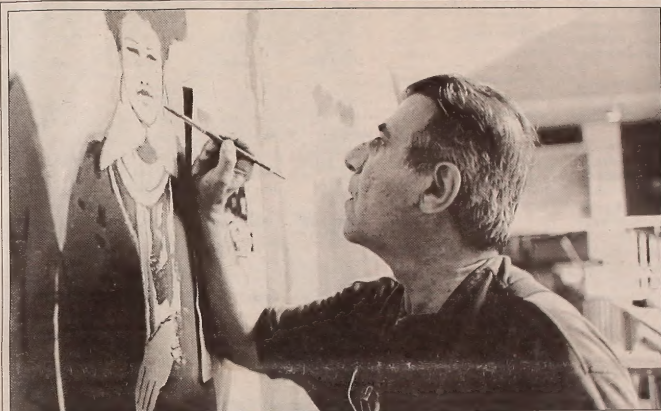
More information about the address will be included in the Aug. 29 *Intercom*.

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Mural in Chambers

Joseph Sevello of Altoona, a 1959 graduate of the College of Education, has completed a 40-by-10-foot mural in Chambers Building on the University Park Campus. The mural depicts the College of Education's mission to prepare teachers, scholars, researchers and leaders. Besides illustrating more than 35 books, Sevello has painted murals in New York, Philadelphia, Pittsburgh and Altoona.

Photo: Greg Grieco

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Spanier outlines extension changes

As part of the re-examination of the University's mission and organizational structure, President Graham B. Spanier Wednesday outlined a plan to strengthen university outreach programs including Penn State Cooperative Extension, which has provided outreach services to the Commonwealth for more than 75 years.

In a speech at Ag Progress Days before an audience including legislators, local, state and federal agricultural officials and agricultural industry representatives, Spanier shared his vision for strengthening outreach by increasing the cooperation and coordi-

nation among Cooperative Extension and other University outreach initiatives.

As part of the plan, Spanier said Cooperative Extension should have its own director, responsible for policy, program and administrative leadership. The dean of the College of Agricultural Sciences currently serves as the director of Cooperative Extension.

The president also said Cooperative Extension must remain closely tied to the College of Agricultural Sciences and maintain its historical commitments to production agriculture and other current program areas. Spanier's concept would join Cooper-

ative Extension to other segments of the University, expanding the education and research base for extension programs. College administrative structures across the University would change to reflect a broadened outreach mission, including supportive ties to Cooperative Extension.

"Cooperative Extension programs, which serve all citizens of the Commonwealth, can gain by drawing on faculty expertise and resources in such colleges as Health and Human Development, Medicine, Engineering, Science, Business Administration and

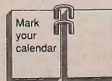
See "Extension" on page 3

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More information about the address will be included in the Aug. 29 Intercom.

Inside



Changing dates

The academic year will begin a few days later beginning in the fall of 1997. For details, please see page 2.



Research

An assistant professor of architectural engineering has devised a procedure for predicting stone bridge failure. For details, please see page 11.

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Academic calendar shifts in fall of 1997

Starting with the fall 1997 semester, Penn State's academic year will begin about a week later in August than it currently begins. The change means that students will have more time for wrapping up summer jobs, work/study programs or internships — or even going on vacation — before they and their families have to pack their bags for the trek back to State College or other Penn State locations.

Under this permanent change, fall 1997's arrival day for new students will be Aug. 23 and classes will begin on Aug. 27 — in both cases, six calendar days later than in fall 1996.

"Before we made the decision to push back the start of the academic year, we consulted widely with students, faculty and staff," said **John Brighton**, executive vice president and provost. "We believe this change will better accommodate the needs of students and their families, by giving them as much time as possible for work, study and family-related activities during the traditional summer months."

Despite the later start, the fall semester will continue to include 15 weeks of classes, followed by two study days and a six-day final examination period.

"Because of the consultation process we went through, we're convinced that the change in the calendar is going to ease the transition from summer to fall as the academic year gears up," Brighton said. "As the new calendar takes effect, we will welcome comments from students, faculty and staff, and other segments of the University community."

The calendars for academic years 1996 through 2000 are detailed in the accompanying chart.

UNIVERSITY ACADEMIC CALENDAR

	FALL SEMESTER 1996	FALL SEMESTER 1997	FALL SEMESTER 1998	FALL SEMESTER 1999
Arrival day for new students*	Aug. 17	Aug. 23	Aug. 22	Aug. 21
Classes begin	Aug. 21	Aug. 27	Aug. 26	Aug. 25
Labor Day holiday	Sept. 2	Sept. 1	Sept. 7	Sept. 6
Thanksgiving holiday	Nov. 28-Dec. 1	Nov. 27-30	Nov. 26-29	Nov. 25-28
Classes end	Dec. 6	Dec. 12	Dec. 11	Dec. 10
Study days*	Dec. 7-8	Dec. 13-14	Dec. 12-13	Dec. 11-12
Final exams*	Dec. 9-14	Dec. 15-20	Dec. 14-19	Dec. 13-18
Commencement*	Dec. 15 (Sun.)	Dec. 21 (Sun.)	Dec. 20 (Sun.)	Dec. 19 (Sun.)
	SPRING 1997	SPRING 1998	SPRING 1999	SPRING 2000
Arrival day for new students*	Jan. 8	Jan. 7	Jan. 6	Jan. 1
Classes begin	Jan. 13	Jan. 12	Jan. 11	Jan. 10
Spring Break	March 10-14	March 9-13	March 8-12	March 6-10
Classes end	May 2	May 1	April 30	April 28
Study days*	May 3-4	May 2-3	May 1-2	April 29-30
Final exams*	May 5-10	May 4-9	May 3-8	May 1-6
Commencement*	May 17-18	May 16-17	May 15-16	May 13-14
	SUMMER 1997	SUMMER 1998	SUMMER 1999	SUMMER 2000
Intercession begins	May 12	May 11	May 10	May 8
Memorial Day holiday	May 26	May 25	May 31	May 29
Intercession ends	June 6	June 5	June 4	June 2
Eight-week classes begin	June 11	June 10	June 9	June 14
Six-week classes begin	June 25	June 24	June 23	June 28
Fourth of July	July 4 (Fri.)	July 3 (Fri.)	July 5 (Mon.)	July 4 (Tues.)
Eight- & six-week classes end	Aug. 6	Aug. 5	Aug. 4	Aug. 9
Final exams	Aug. 7-8	Aug. 6-7	Aug. 5-6	Aug. 10-11
Commencement	Aug. 9	Aug. 8	Aug. 7	Aug. 12

*The calendars of locations other than University Park may vary with respect to arrival day, study days, final examinations, commencement and summer sessions.

Source: Office of the University Registrar

Faculty/Staff Alerts

Class attendance/scheduling

Class attendance on the days immediately before Thanksgiving and spring break is often so poor that some instructors cancel classes altogether. This is inconsistent with Penn State's obligation to be fully operational on all scheduled class days.

The administration and the faculty (through the University Faculty Senate) have consistently communicated that class attendance is fundamental and have encouraged regular class attendance by students. Classes are rarely canceled.

Faculty members should hold classes for all assigned periods. Instructors may always accommodate individual absences, as appropriate, by making alternate arrangements and providing opportunities to make up work.

Intercom online survey

As part of an ongoing process to evaluate content, design and readership of the *Intercom*, both its paper version and online form, readers are asked to go to the *Intercom* World Wide Web site at <http://www.sur.psu.edu/Intercom/home.html> and read the online version. From there, click on the link for the "Readership Survey" and fill out the short questionnaire. The information you provide will be confidential and helpful in guiding the *Intercom* staff in its work.

Individuals who have read the *Intercom* online in the past, can go directly to the survey at URL

<http://www.sur.psu.edu/intercom/survey/consent.html>. Your participation is appreciated.

Support group formed

A support group for women with cancers of the reproductive system has been formed at the University Cancer Center at Hershey. COVE, which stands for cervical, ovarian, vaginal and endometrial, is the first support group of its kind at The Hershey Medical Center.

Meetings of the group will be held the second Thursday of each month at the Cancer Center from 6:30 to 8:30 p.m. Participants can discuss concerns related to reproductive cancers and some topics will include updates on medical information, family problems, sexuality issues and stress. No registration is required. For more information, call the center's Cancer Careline at (800) 531-1535.

Adolescent eating program

A new program to help adolescents with eating disorders opened at The Hershey Medical Center. The Adolescent Eating Disorder Program, coordinated by John Horn, of the Department of Psychiatry, offers patients coordinated care from a registered dietitian, an adolescent medicine physician, a psychiatrist and psychologist. Group therapy sessions are also available.

For more information on eating disorders or the

new program, please call the medical center's Department of Psychiatry at (717) 531-6771.

Fall reception

Everyone is welcome at the Fourth Annual Reception for the Lesbian, Gay, Bisexual and Ally Community. The reception, sponsored by the Commission on Lesbian, Gay and Bisexual Equity, will take place from 6 p.m. until 7:30 p.m., on Friday, Sept. 6, in 110 North Henderson Building, the Living Center, on the University Park Campus.

LIAS seminars

The University Libraries is offering a series of seminars during the fall semester to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact Doris Herr at (814) 863-0325. Information on the seminars can be found by typing **HELP WORKSHOP** when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.



Lazy days of summer

The sidewalks on the University Park Campus may be empty today, but they'll be overflowing soon. Arrival day for new students is Saturday, Aug. 17, and fall semester classes begin Wednesday, Aug. 21.

Photo: Greg Grieb

Extension

continued from page 1

Education," Spanier said. "Cooperative Extension also can make good use of the resources of Penn State's Division of Continuing and Distance Education."

The plan, which is the culmination of a year of discussion with both internal and external constituent groups, seeks to bring together all University outreach units while enhancing the programs offered through Cooperative Extension. Cooperative Extension is a community-based educational network that provides people in all 67 counties of Pennsylvania access to Penn State, their land-grant institution.

One of the great strengths of Cooperative Extension, according to Spanier, is its delivery system — its ability to reach so many Pennsylvanians. Each year, more than 8 million people in the state participate in seminars, workshops, conferences, short courses, computer-assisted learning, learn-at-home programs and other activities offered by Cooperative Extension.

Under Spanier's plan, the role of the University's senior officer for outreach, **James Ryan**, vice president for Continuing and Distance Education, will be redefined. Ryan will adopt the new title of vice president for outreach and Cooperative Extension and will be responsible for creating partnerships with academic deans, administrators, faculty, staff and advisory groups. He will also administer the budget and programs of Continuing and Distance Education and Penn State Public Broadcasting. In close cooperation with the dean of the College of Agricultural Sciences, he will jointly oversee Cooperative Extension.

"I look forward to working closely with Dr. Ryan to strengthen our system for delivering the educational and research resources of Penn State to the people of Pennsylvania," **Theodore Alter**, dean of the College of Agricultural Sciences, said. "This expansion of our support base and delivery capabilities will strengthen Cooperative Extension programming for agriculture and the food system, Pennsylvania's young people, families, businesses and communities."

The new director of Cooperative Extension,

who also will serve as an associate dean in the College of Agricultural Sciences, is expected to create cooperative, coordinated programming relationships among faculty and extension staff across departments, colleges and disciplines, and to secure additional funding.

"This [initiative] will create a more integrated and coordinated statewide presence for Penn State outreach overall," Spanier said. "In addition, this new relationship will ultimately improve Cooperative Extension's capacity to address pressing issues and needs through the involvement of a broader array of University faculty and staff expertise and fiscal resources."

Once again touching on a theme that has been sounded throughout his first year as University president, Spanier said that in order for Penn State to remain true to its land-grant mission, all of Penn State's outreach and extension initiatives must be better coordinated and supported.

"Client needs are changing with demographic trends, economic conditions and more mandated programs," he said. "New electronic delivery methods also are altering the way Cooperative Extension and outreach systems are operating nationwide."

All told, Penn State's efforts to share its resources show that more than 100 major outreach and extension programs provided by various units within the University reach half of Pennsylvania's nearly 11.9 million population.

Some of the other highlights planned for University outreach and Cooperative Extension include:

- the creation of regional councils to aid communication and cooperation among Penn State outreach and Cooperative Extension personnel and programs. This change should help Penn State respond better to local needs.

- changing the titles and duties of the assistant or associate deans responsible for Continuing and Distance Education in each of the colleges to include a liaison role with Cooperative Extension.

Promotions

Staff

Patricia L. Bertoni, administrative assistant II at The Hershey Medical Center.

Gary Botts, human resource coordinator II at Penn State Erie, The Behrend College.

Shawnie Butts, staff assistant VII in Office of the Vice Provost and Dean for Undergraduate Education.

Angela Chappel, LPN/MEDS at The Hershey Medical Center.

Alexandre Dasilva, manager, Food Services I, in Housing and Food Services.

Kim Fensler, LPN/MEDS at The Hershey Medical Center.

Jennifer Fetrow, business coordinator at The Hershey Medical Center.

Jayne Fowler, staff assistant VI at The Hershey Medical Center.

Maxine Gerberich, administrative assistant I at The Hershey Medical Center.

Donna Harris, staff assistant VI at The Hershey Medical Center.

Kathleen Hoffner, clinical head nurse at The Hershey Medical Center.

Susan Irwin, staff assistant VII in Office of the Vice Provost and Dean for Undergraduate Education.

Sharon Kaylor, administrative assistant I at The Hershey Medical Center.

Donna Kerstetter, staff assistant VII in Office of the Vice Provost and Dean for Undergraduate Education.

Diane Kupstas, coordinator, Cardiovascular Services, at The Hershey Medical Center.

Douglas Linebaugh, assistant manager, Food Services, in Housing and Food Services.

Eileen Long, patient representative at The Hershey Medical Center.

Melinda McCane, assistant manager, Food Services, in Housing and Food Services.

Donald Moore, communications analyst II in Computer and Information Systems, Telecommunications.

Louisa Morgan, administrative assistant I at Penn State Harrisburg.

Joni Norris, staff assistant VI at The Hershey Medical Center.

Loretta Reigle, administrative assistant I at Penn State Harrisburg.

Danielle Richards, DUS programs coordinator at Penn State Berks Campus.

Cynthia Ricotera, staff assistant V at The Hershey Medical Center.

Mark Schwartz, program coordinator IV at The Hershey Medical Center.

Mona Lisa Shaw, administrative assistant II in Sports Medicine.

Caroline Sutton, information systems assistant II at Penn State Wilkes-Barre Campus.

Stacey Wance, assistant engineering aide in Applied Research Laboratory.

Beverly Whitman, staff assistant VI at The Hershey Medical Center.

Steven Winter, senior technician, research, at The Hershey Medical Center.

Maria Worley, research support technician III in Research and Graduate School.

Technical Service

Daniel Barry, electro-mechanical hardware technician at The Hershey Medical Center.

Pamela Di Leo, maintenance worker, utility, at Penn State Abington-Ogontz Campus.

Eucal Holness, maintenance worker, utility, at Penn State Abington-Ogontz Campus.

Brian S. Lyle, maintenance worker, utility, in Office of Physical Plant.

Robin Pilosky, janitorial worker in Office of Physical Plant.

Robert Seprich, group leader, test track, in Research and Graduate School.

Kevin Spicer, shipping and receiving attendant in Applied Research Laboratory.

Ronald Walk, power plant worker in Office of Physical Plant.

Timothy Wisor, power plant worker in Office of Physical Plant.

Three named 1996-97 Administrative Fellows

Three Administrative Fellows have been appointed for the 1996-97 academic year. The Administrative Fellows Program is designed to enhance the administrative talents and qualifications of participating Penn State women and minority faculty and staff members through mentorship experiences with top-level administrators at the University.

The new fellows and their mentors are:

— **Cheryl Achterberg**, professor of nutrition and director of the Penn State Nutrition Center, will serve under the mentorship of **John Brighton**, executive vice president and provost.

— **Gail Ann Hurley**, director of residence life in the Department of Student Affairs, will serve under the mentorship of **Gary C. Schultz**, senior vice president for finance and business/treasurer.

— **Sophia Wisniewska**, director of graduate program administration at Penn State Great Valley, will serve under the mentorship of **Robert E. Dunham**, senior vice president and dean of the Commonwealth Educational System.

At University Park, Achterberg teaches at the undergraduate and graduate levels and administers the Nutrition Center's nutrition resource collection, consumer behavior research, laboratory and diet assessment services. She also currently serves as a College of Health and Human Development representative to the University Faculty Senate and a member of the Special Committee on General Education.

She came to Penn State in 1985 as an assistant professor and co-director of the center, was promoted to associate professor in 1991, to director of the center in 1992, and to professor this year. She earned

her bachelor's degree in biology from California Polytechnic State University in 1975, her master's degree in human development from the University of Maine in 1981, and her Ph.D. in human nutrition from Cornell in 1986. She also has worked as a community nutritionist for Washington County, Maine.

Her recent honors from Penn State include the 1995 Milton S. Eisenhower Award for Distinguished Teaching, the 1995 Panhellenic Outstanding Faculty Award, and the 1995 Continuing and Distance Education Faculty Excellence Award. She also earned the 1993 Mead Johnson Research Award from the American Institute of Nutrition and the 1995 Ruth M. Leveton Award in Nutrition Education from the American Dietetic Association.

Hurley, also at University Park, is responsible for managing and supervising the residence hall system housing 14,000 students in 86 halls across nine Penn State campuses. She is chair of a system-wide committee on security standards and practices at residential campuses, a member of the University-wide committee on recycling and chair of various quality teams for the Office of Student Affairs.

She joined Penn State in 1984 after working in residence life and student affairs at Ohio University and DePaul University. She earned a bachelor's degree in Spanish secondary education from Westminster College in 1975 and a master's degree in college student personnel work from Bowling Green State University in 1976.

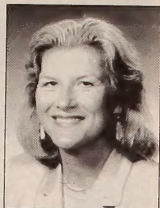
Her work earned her a 1992 Outstanding Service to Students award. Beyond her Penn State affiliations, she is a member of the Association of College and University Housing Officers International and a graduate of Leadership Centre Country.

At Penn State Great Valley, the suburban Philadelphia campus dedicated to master's studies, Wisniewska has served as the chief enrollment officer since 1988 and helped increase enrollment by 60 percent in that time. Her duties also encompass leadership in program and curriculum development.

Earlier, she had worked in continuing education with Penn State's King of Prussia Center, the Penn State Abington-Ogontz Campus and the Penn State Berks Campus. She earned her bachelor's degree in Russian from Penn State in 1974 and her master's degree and Ph.D. in Russian language and literature from Bryn Mawr College in 1984 and 1992, respectively.

She has taught for the Bryn Mawr Russian Language Institute and Department of Russian and won a 1995 U.S. Department of State Fellowship to support research on Russian women writers of the post-Perestroika period at the Moscow Linguistics University. Her recent professional activities have included directing funded projects for the Equal Opportunity Planning Committee and representing Penn State on the Pennsylvania American Council on Education's National Identification Program for Advancement of Women in Higher Education.

The Administrative Fellows Program provides opportunities for Fellows to participate in a wide range of decision-making processes, learning activities and program management so they are better equipped to handle the challenges of higher education administration. The program also will help create a pool of qualified women and minorities for potential administrative vacancies, both inside and outside the Penn State community.



Sophia Wisniewska



Gail Ann Hurley



Cheryl Achterberg

Secretary of Agriculture an Alumni Fellow

Charles C. Brosius, secretary of the Pennsylvania Department of Agriculture, has been named an Alumni Fellow by the Penn State Alumni Association. He will be honored at 5:30 p.m. Sept. 12 at the Nittany Lion Inn ballroom on the University Park Campus.

A native of Chester County, Brosius received his bachelor's degree in dairy science from Penn State in 1952. He was named Pennsylvania's secretary of agriculture in 1995 by Gov. Tom Ridge. Brosius, a resident of West Grove, owned and operated Marlboro Mushrooms, a commercial mushroom farm with 115,000 square feet of growing facilities. After assuming the duties of secretary of agriculture, Brosius ended control of the business to his three sons, **Mahlon, Thomas and Harold**—all Penn State graduates. Brosius' wife, **Jane**, also a Penn State alumna, works in the business as well.

After graduation, Brosius began his career as a dairy

farmer but soon sold his herd and invested in mushrooms. Marlboro Mushrooms is now a multi-million dollar business, supplying more than 2.5 million pounds of mushrooms to markets up and down the East Coast.

Brosius was elected to the Board of Trustees in 1989 and also served as chairman of The Hershey Medical Center Advisory Committee. He served on the University Presidential Selection Committee and was named a distinguished alumnus of the Department of Dairy and Animal Science in 1993.

Brosius formerly served as vice chairman of the board of trustees of Agway Inc., and was a member of the board of directors of Telmark Inc., an agricultural leasing and financing firm. He is a former director and secretary of the American Mushroom Institute and served on the board of directors of the Pennsylvania Chamber of Commerce and Industry. He also served as the chairman of the Chester County Agricultural Development Council and served on the board of directors of Curbitus Farms Foods Inc., a food processing firm, from 1989 to 1995. He was named a master farmer in 1979.

The Alumni Fellow Award, presented by the Penn State Alumni Association, is administered in cooperation with the colleges of the University. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.



Charles C. Brosius

News in Brief

Child care

The Office of Human Resources Work/Life Programs will provide temporary care for school-age children (ages 6 to 11) on the University Park Campus between the University's opening schedule and the start of public school classes. Care will be provided for children of faculty, staff and students from 7:30 a.m. to 5:30 p.m. Monday through Friday, Aug. 26-30.

A wide variety of activities will be offered, including ice skating, basketball, football, soccer, bocce ball, badminton, recreational swimming, arts and crafts, science exploration and soap carving. Activities will be supervised by staff and volunteers from the Office of Human Resources.

Fee is \$75 per child for the week. For more information, call the Office of Human Resources Work/Life Programs at (814) 865-5886. To volunteer to work at the camp, call **Prudence Johnson** at (814) 865-9193 or **Cathy Kanour** at (814) 865-5886 or e-mail pp1@oas.psu.edu or rc14@oas.psu.edu.

Appointments

Beaver Campus names director of athletics, intramurals, recreational sports

Donna J. Kuga has been appointed director of athletics, intramurals and recreational sports at the Penn State Beaver Campus. Kuga, associate professor of kinesiology at Penn State, has been a faculty member since 1981. She replaces the former athletic director who left to take a teaching and coaching position at another institution.

In her new position, Kuga will be responsible for directing the development and operation of the Beaver Campus varsity teams, including golf, baseball, women's volleyball, women's softball and men's basketball. She will oversee all intramural activities and sports camps, and will continue to teach and advise full time.



Donna J. Kuga

DuBois Campus appoints grants coordinator

Kathryn M. Neureiter has been appointed grants coordinator at the Penn State DuBois Campus. Her responsibilities include overseeing the search for and administration of federal, state and local grants in addition to coordinating the growing Tech Prep program.

As grants coordinator, Neureiter will administer existing grants including the Ben Franklin grant, now in its fourth year of funding. In addition, she will coordinate new grant efforts; search for additional sources of funding; and act as liaison between grant partners.

As Tech Prep coordinator, Neureiter will facilitate the implementation of Tech Prep curricula at each of the 14 DuBois Campus consortium schools, act as liaison among them and work to extend the Tech Prep advantage to additional schools and school districts. The Tech Prep program encourages secondary students who do not wish to pursue baccalaureate degree study to take more in-depth technical courses in preparation for associate degree study or to enter the work force with increased technical skills following high school graduation.

Neureiter holds a bachelor's degree in elementary education with a minor in science along with an associate degree in business administration, both from Penn State. She also has completed advanced course work in the field of financial accounting. Before joining the DuBois Campus administrative staff as Tech Prep secretary in 1992, Neureiter worked with a social service agency in Emporium as Head Start program assistant director, later advancing to the role of director. In addition, she worked in the Summer Youth Training Program, the Day Treatment Program and the Elk County Job Training Program. She also worked with the St. Marys Area School District.

Former WQED executive joins Penn State Public Broadcasting

Mark Smukler, former vice president and station manager at WQED in Pittsburgh, has been named director of media solutions for Penn State Public Broadcasting (WPSX-TV). He will oversee this production department with the mission of using media to extend the training and marketing expertise of Penn State to Pennsylvania's businesses and institutions.

Smukler started in production at WQED in 1984 and became station manager in 1990. He was involved in public affairs programs such as "The People's Business," "The Editors," the "Pennsylvania Road Show," "Pittsburgh History Series," and outreach projects in elder abuse, workplace literacy and health education.



Mark Smukler



A little help

Ann Mencher of Lemont gets a hand from her mom, Jan, while her sister Katie watches. The family was skating at the Penn State Ice Pavilion on the University Park Campus during a Diversions activity sponsored by the office of Summer Sessions. The skating rink is returning to fall semester hours, which are: Sunday, 1-3 p.m.; Tuesday and Thursday, 2-4 p.m.; Thursday, 8-10 p.m. (adults and Penn State students only); Friday, 7-9 p.m.; and Saturday, 1-3 and 8-10 p.m. The rink closes in the afternoon on football Saturdays.

Photo: Andrea Hurley

For the Record

■ In the July 18 issue of *Intercom* under the academic promotions listing, the name of **Marc L. Harris**, who was promoted to associate professor, was misspelled.

■ Also in the July 18 issue of *Intercom*, the story on Penn Staters participating in the Olympics failed to list **Paul K. Canavan**, physical therapist/athletic trainer with the Center for Sports Medicine, as a certified

athletic trainer for athletes in the weight lifting, gymnastics and fencing venues.

■ Evan Pugh Professor **Hellmut Hager**, head of the Department of Art History, is stepping down after 24 years to devote more time to his scholarly research. His title was incorrect in a headline on page 7 of the Aug. 8 *Intercom*.

The ARTS

AT PENN STATE



On stage

Subscriptions for Center for the Performing Arts events are still available. Good seats for all 35 events, including the season-opening Haworth Shakespeare Festival presentation of "Romeo and Juliet," above, at 8 p.m. Saturday, Sept. 21, in Eisenhower Auditorium, can be had. The Center offers nine subscription packages, including the Cool Heat series featuring four jazz concerts. The Roy Hargrove Quintet opens the series with a concert Saturday, Oct. 5, in Eisenhower Auditorium. For tickets or more information, phone (814) 863-0255

Visiting dance scholar offers workshop

Angela Diki-Yannoukalis of Athens, Greece, will be a visiting scholar on the University Park Campus from Aug. 22 through Sept. 2. A Greek-Macedonian dance workshop and choreography for the Penn State International Dance Ensemble is scheduled for 9 a.m. to 7 p.m. Saturday, Aug. 24, in 133 White Building.

Yannoukalis is a 1991 graduate of the Penn State International Dance Ensemble and former assistant director.

She is a dancer with Lykeion Ellinidon in Athens, and owner-director of Dance Palette Studio in Athens. Her visit is hosted by Elizabeth Hanley, assistant professor and director of the Penn State International Dance Ensemble.

UNIVERSITY PARK CALENDAR August 15 - September 1

SPECIAL EVENTS

Wednesday, August 21
Gerontology, noon, 101 H&H East. Meeting for NIA trainees and training committee only.

Saturday, August 24
■ Greek-Macedonian dance workshop and choreography for the Penn State International Dance Ensemble, 9 a.m.-7 p.m., 133 White Bldg. Angela Diki-Yannoukalis, visiting scholar from Athens, Greece.

Monday, August 26
School of Music, 8 p.m., Recital Hall. Mark L. Lusk, trombone.

SEMINARS

Friday, August 23
Accounting, 3:30 p.m., 333 Beam BAB. Marilyn F. Johnson on "How Firms Responded to the New Tax Law Limiting the Deductibility of Certain Executive Compensation."

Geography, 4 p.m., 206 Walker Bldg. Lynn Liben on "The Pliagellan Water-Level Task Revisited: Why Can't People Get It Straight?"

Wednesday, August 28
Gerontology, noon, 101 H&H East. Adam Davey on "Pat- terns of Exchange and Older Adults' Mental Health: Do 'Matters Matter'?"

Friday, August 30
Geography, 4 p.m., 206 Walker Bldg. C. Gregory Knight on "The World Map of Precipitation Variability."

Partings

Hazleton director of Student Affairs retires after nearly 40 years of service

After nearly 40 years at Penn State, most of them at the Hazleton Campus, Joseph L. McCallus, director of Student Affairs at the campus, retired June 30.

In the various positions he held, McCallus has seen thousands of students make their way through his office either in the admissions process or as active members of the Student Government Association and its clubs and organizations.

From 1958 until his retirement, McCallus was responsible for student affairs, admissions activities, financial aid, cultural programming, veterans' affairs, residential life, student clubs and organizations, student disciplinary actions and health services.

McCallus taught accounting, management and finance for students in resident instruction and in continuing education courses. He also taught principles of economics, money and banking, supervision and principles of management for the American Institute of Banking.

Longtime employees retire from University service

LaRue E. Miller, staff nurse at The Hershey Medical Center, from Sept. 8, 1980, until June 1.

Lois R. Yohn, program aide, The Hershey Medical Center, from April 7, 1980, to May 1.

Dorothy M. Campolongo, medical assistant in the College of Health and Human Development, retired May 1 after nearly 22 years of service.

William L. Hilgar, HVAC maintenance mechanic in the Office of Physical Plant, from Jan. 26, 1968, to June 30.

John P. Houlland, instructor at the Penn State Beaver Campus, from July 1, 1989, to June 30.

Philip H. Lockard, electrician A in the Office of Physical Plant, from June 18, 1973, to June 30.

Martha G. Rossman, janitorial worker, Office of Physical Plant, from Sept. 19, 1977, to June 30.

CONFERENCES

Tuesday, August 20
Monoclonal Antibody Production and Purification, The Nittany Lion Inn. Through Aug. 23.

Friday, August 23
Bernstein's Traditions in Motor Control, The Penn State Scanticon, Through Aug. 25.

Wednesday, August 28
Columbia Gas Management Conference, The Penn State Scanticon, Through Aug. 29.

Thursday, August 29
Short Course on Powder Injections II, The Nittany Lion Inn. Through Aug. 30.

EXHIBITS

Palmer Museum
"Centennial: State College Remembers, 1896-1996," through Aug. 25.

"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

Zoller Gallery
"More is More," Visual Arts faculty collections. Aug. 27 through Sept. 17.

■ Reflects an international perspective

"The development of students is what has mattered most to me," McCallus said. "To see students in the Student Government Association and at the campus learn new skills they will take with them wherever they go...has been most gratifying to me."

McCallus received his B.S. and master's degrees in business administration from Penn State. He is a member of the National Association of College Admissions Counselors, National Association of Student Personnel Administrators and the Pennsylvania Association of Secondary School and College Admissions Counselors. He and his wife, Margaret Treibel McCallus, are lifelong residents of West Hazleton. Their four sons are all Penn Staters, and Margaret had a career as a library assistant at the campus in the 1960s.

In announcing his retirement, McCallus said, "I would welcome being invited back to serve the campus on committees if I might contribute my interests and energies to a place I love very much."

Verna V. Schwartz, staff assistant VI at The Hershey Medical Center, from Feb. 4, 1974, to March 30.

Eugene A. Waite, groundskeeper, Landscape A, Office of Physical Plant, from July 1, 1971, to June 30.

David L. Walker, plumber-fitter, Office of Physical Plant, from July 15, 1966, to June 22.

Nancy R. Warefield, janitorial worker, Office of Physical Plant, from March 19, 1979, to June 30.

Rhoda A. Williams, staff assistant VIII in the College of Health and Human Development, from Sept. 18, 1970, to June 30.

Richard L. Williams, research assistant in the College of Agricultural Sciences, from Nov. 1, 1973, to May 1.

Patricia L. Zimmerman, grill cook, HUB, Housing and Food Services, from Jan. 23, 1971, to March 30.

LECTURES

Multicultural dialogue on family violence Oct. 22-23

Health professionals, human service providers, advocates for women and scholars in related fields may want to attend "United in Our Diversity: A Multicultural Dialogue on Family and Intimate Violence," on Oct. 22-23 at The Penn State Scanton.

Intimate or domestic violence is a widespread health crisis with serious economic, political and human rights ramifications. At least 1 million women seek medical care for abuse-related injuries each year.

"United in Our Diversity" will address these multicultural issues of family and intimate violence for diverse populations in the United States. The program will provide an

opportunity for researchers to frame questions for further study based on the experiences of advocates, service providers and other researchers.

The closing ceremony of the conference will inaugurate the Women's Global Peace and Healing Alliance at Penn State as a place to archive, study and distribute the information shared and collected during the conference.

Anyone who would like more information about the conference agenda, please contact **Dee Frisque**, program planning associate, by phone: (814) 865-7679; fax: (814) 865-3589; or e-mail: dmr108@cds.psu.edu.

The deadline to register is Sept. 22.

Adult development, emotion topic of talks

An Emotion and Adult Development Conference will be held Oct. 7 to 9 at The Penn State Scanton on the University Park Campus. Registration deadline is Sept. 27.

The conference will address key topics in the study of emotion as applied to aging and adult development. Points of view will be considered that are relevant to biology, medicine, neuropsychology, developmental psychology, social psychology, sociology and anthropology. The major focus will be on the emotional processes characteristic of the general adult and aging population. However, the entire range of emotional function from normal behavior to emotional expression in pathological states will be addressed.

The conference, chaired by **M. Powell Lawton** of the Philadelphia Geriatric Center and **K. Warner Schaie**, Evan Pugh professor of human development and psychology,

will begin with an overview, followed by four topical sessions: Biopsychological Aspects of Emotion; Cognitive and Experiential Aspects of Emotion; Interpersonal and Social Aspects of Emotion; and Cultural and Environmental Contexts of Emotion.

A limited number of rooms have been set aside at the Scanton for conference participants. To make a room reservation, call (800) 893-4602 or (814) 863-5000, or fax (814) 863-5001 by Sept. 6.

Application has been made for APA credit. Each conference participant will receive a certificate for Continuing Education units earned.

For more information, call conference planner **Judy Hall** at (814) 863-5130, fax (814) 863-5190 or e-mail Conference@cds.psu.edu. For up-to-date conference information, visit the conference Web site at <http://www.cds.psu.edu/CCr/Emotion/>

BOOK SHELF

Simon Bronner, Penn State Harrisburg distinguished professor of folklore and American studies, is the author of *Popularizing Pennsylvania: Henry W. Shoemaker and the Progressive Uses of Folklore and History*, published by the Penn State Press.

Bronner's work is the first full-length biography of the late Shoemaker, America's first state folklorist and a pioneer of national conservation. Shoemaker worked with national leaders such as Theodore Roosevelt and Gifford Pinchot to heighten America's appreciation of nature, history and common folk.

Sintering Technology, edited by a group of Penn State researchers, is an up-to-date reference of the latest advances in the application of sintering to the most important industrial materials.

Published by Marcel Dekker Inc., New York, the book is a compilation of papers presented at an international conference on sintering held at Penn State. The publication was edited by **Randall M. German**, holder of the Brush Chair in materials and professor of engineering science and mechanics; **Gary L. Messing**, director of the Particulate Materials Center and professor of ceramic science and engineering; and **Robert G. Cornwall**, associate director of the Particulate Materials Center.

Sintering Technology is intended as a practical resource for mechanical, materials, ceramic, manufacturing,

metallurgical, chemical and electrical and electronics engineers; materials scientists; powder metallurgists; ceramists and physicists.

Sintering Technology provides guidance for start-up operations, explains new techniques and supplies new models for particle bonding and improvement simulations.

Wendell V. Harris, professor of English, is the editor of *Beyond Poststructuralism: The Speculations of Theory and the Experience of Reading*, a selection of essays which critique the excesses of poststructuralist theory and suggest ways in which the study of literature can be improved.

The book, published by Penn State Press (1996), points out fallacies of structuralist and poststructuralist thought and provides ideas that would bring literary study into closer relation with human experience and the world.

Nancy L. Herron, director of academic affairs at the Penn State McKeesport Campus, edited *The Social Sciences, A Cross-Disciplinary Guide to Selected Sources*, Second Edition, published by Libraries Unlimited, Englewood, Colo.

Prepared by practicing librarians, this guide offers researchers access to some of the best and most commonly used social science resources. It also can serve as a teaching text for students wanting a clear, straightforward

approach to learning about the most popular and important reference sources in the social sciences.

Contributing authors include **Kay Harvey**, head librarian, Penn State McKeesport Campus; and **Christine Avery**, **Debora Cheney**, **Cindy Faries**, **Kevin R. Harwell**, **Sally G. W. Kalin**, **Karl H. Proehl** and **Diane Zabel**, all from the University Libraries.

Proponents of legalizing hard drugs say that legalization wouldn't significantly boost drug use or the availability of drugs, and would relieve prison crowding and lower the costs of the criminal justice system. But **Kathleen Lodwick**, a Penn State Allentown Campus history professor who has written a book about the opium trade in 19th-century China, says history shows us that legalization won't work.

In her book, *Crusaders Against Opium: Protestant Missionaries in China, 1874-1917*, Lodwick tracks the history of the opium trade in China, the British government's involvement and the effect on both nations.

Opium use in China in the 19th century caused the physical decline and death of hundreds of thousands, destroyed families and brought about the collapse of many institutions, such as China's army, its businesses and its banking houses.

William J. Rothwell, associate professor of human resource development in the College of Education, is the author of *Beyond Training and Development: State-of-the-Art Strategies for Enhancing Human Performance*, published by AMACOM, a division of American Management Association in New York City. *Beyond Training and Development* provides a comprehensive new model for human performance enhancement and offers practical strategies for carrying it out.

In the book, Rothwell shows how human performance enhancement widens the landscape of training, transforming it from an isolated function to a driving force behind company achievement.

Rod Troester, associate professor of speech communication at Penn State Erie, The Behrend College, is the author of the book *Jimmy Carter as Peacekeeper: A Post-Presidential Biography*, published by Praeger. Troester shows how Carter, through his international humanitarian and peacekeeping efforts, both refurbished his image as president and redefined the role of a former president.

Carter left the White House in January 1981 in the wake of the Iranian hostage crisis, a faltering economy and a stunning defeat at the polls by Ronald Reagan. While most former presidents left to write their memoirs, establish presidential libraries, serve on corporate boards or assume the role of elder statesman and adviser to succeeding presidents, Carter took a different path.

According to Troester, Carter has shown that through active involvement in world affairs and humanitarian causes and through the careful investment of post-presidential credibility and political capital, a former president can make significant contributions to a more peaceful world.

Vladimir M. Zatsiorsky, director of the Biomechanics Laboratory, Department of Kinesiology in Health and Human Development, wrote *Science and Practice of Strength Training*, published in the United States by Human Kinetics Publishers.

A German edition of the book is published by Meyer & Meyer Verlag, Aachen, Germany.

Penn Staters

Micela Amato, associate professor of art and women's studies and area head of painting and drawing in the School of Visual Arts, presented a paper and at the Fifth Conference of the International Society for the Study of European Ideas in Utrecht, The Netherlands. The conference, "Memory, History and Critique: European Identity at the Millennium," was held at the University for Humanist Studies, Utrecht. Amato's paper was titled, "Another Form of Blood, Memory is also Truth and Life."

Associate professors of music, **Dan C. Armstrong** and **Eleanor Duncan Armstrong**, The Armstrong Flute and Percussion Duo, have released a new compact disc, "Exotic Chamber Music," on the Centaur label.

Andrew T. Bergstein, instructor in marketing in The Smeal College of Business Administration, has been named to a second two-year term on the bi-partisan Trade Policy Advisory Committee. The committee advises the U.S. Commerce Department and trade representative on federal programs to support trade and exports by American industry. The 25-member body includes representatives from major U.S. corporations, industry groups and business consultants.

Anthony Castro, senior research associate in veterinary science and associate director of the Animal Diagnostic Laboratory, was elected to the Board of Governors of the American College of Veterinary Microbiologists. The board certifies graduates in veterinary microbiology.

Julie Heffernan, assistant professor of art in the School of Visual Arts, recently had a solo exhibition of her paintings, "Julie Heffernan Paintings," at the Littlejohn Contemporary, a gallery in New York City.

Dale Jacquette, professor of philosophy, presented the paper "Intentionality on the Installment Plan" at the Rijksuniversiteit Utrecht, The Netherlands, as part of the J. William Fulbright Commission for Cultural, Educational and Scientific Exchange between the United States and The Netherlands.

He also presented "Truth as a Regulative Concept of Philosophical Semantics," at the Conference on Truth, Inter-University Centre of Dubrovnik, Croatia, held in Bled, Slovenia; "Neurobiology and the Soul," at the Ciclo Sobre Cien-

cia Cognitiva, Universidad Complutense de Madrid, Spain; and "Searle's Antirealistism," at the Universidad del Pais Vasco, Spain. In addition, he was the invited speaker on "Wittgenstein: Logic and Ethics," where his lectures included: "Wittgenstein on Logic in the Tractatus and 'Some Remarks on Logical Form,'" and "Wittgenstein on the Transcendence of Ethics." The lectures were given at the Universidad del Pais Vasco, Institute for Logic, Cognition, Language and Information.

Budugur Lakshminarayana, Evan Pugh professor of aerospace engineering, has received the Fluids Engineering Award from the American Society of Mechanical Engineers for major contributions in the area of fluid machinery engineering which have directly benefited industry and researchers worldwide. He also was honored for educating an "impressive cadre of students who now hold key positions in the turbomachinery industry." The award was established in 1968.

Ruth Anne Mears, senior extension agent in Clarion County, received one of 10 national 1996 Leaders Awards from the American Association of Family and Consumer Sciences.

Robert E. Newnham, Alcoa professor of solid state science; **Aydin Dogan** and **Sedat Alkoy** for the Intercollege Materials Research Laboratory, presented "Miniature Piezoelectric Hollow Sphere Transducers" at the 50th Anniversary of the International Frequency Control Symposium.

Benjamin Nolt, extension assistant in agricultural and extension education, was appointed by Gov. Tom Ridge to serve as the executive secretary of the Pennsylvania Horseracing Commission.

Helen O'Leary, assistant professor of art, has been awarded a grant from The Pollack-Krasner Foundation Inc., of New York City. The Pollack-Krasner Foundation Inc., assists the careers of artists of merit. O'Leary, a painter, participated in a residency at the Tyrone-Guthrie Centre, Monaghan, Ireland.

Joan Thomson, associate professor of rural sociology, served as a member of the 1996 U.S. Department of Agriculture Higher Education Challenge Grants Program Peer Review Panel. The panel considered proposals in curricula

design and materials development, faculty preparation and enhancement, instruction delivery systems and student experiential learning.

Fred Vondracek, professor of human development in the Department of Human Development and Family Studies, presented an invited talk at the Bergische University of Wuppertal in Wuppertal, Germany. The title of his presentation was "Studying Career Development from the Developmental-Contextual Perspective: The Sample Case of Identity Development."

Richard Walter, assistant professor of education, will serve as the editor of *Occupational Education Forum*, a publication started at Penn State in 1971. The publication previously was housed at North Carolina State University, Texas A & M University and Volusia County Schools in Florida.

A video titled "23 Hours in County Government," produced by **Steven Williams**, senior producer/director in agricultural information services, won the 1996 Award of Excellence sponsored by the National Association of County Information Officers. **Timothy Kelsey**, assistant professor of agricultural economics, was a consultant for the project, which was a joint venture with the County Commissioners Association of Pennsylvania and Penn State Cooperative Extension.

Richard A. Wysk, Leonard Chair in engineering and professor of industrial engineering, was recently named a Fellow in the Society of Manufacturing Engineers.

Charles Yesalis, professor of health policy and administration and kinesiology, has been elected to the Alpha Chapter of Delta Omega Honorary Society in Public Health. The honor is reserved for distinguished alumni of the Johns Hopkins University School of Hygiene and Public Health.

John Yocum, senior research associate in agronomy, received the Man of the Year Award from the Pennsylvania Plant Food and Protection Educational Society.

Vladimir M. Zatsiorsky, director of the Biomechanics Laboratory, Department of Kinesiology in Health and Human Development, gave an invited lecture on "Strength Training for Power Performance" at the 1996 Conference of the National Strength & Conditioning Association.

25-year Awards



Wanda Ayers



Nancy Struble



Sharon Becker



Rebecca Young



James J. Kelley



Anne L. Robbins

Observing 25 years of service at the University are, from left, Wanda Ayers, staff assistant V, and Nancy Struble, staff assistant VI, both in the University Libraries; Sharon Becker, administrative assistant II, and Rebecca Young, administrative assistant III, both in the Office of the President; James J. Kelley, senior associate director, Division of Undergraduate Studies; and Anne L. Robbins, administrative assistant IV, Department of Comparative Medicine at The Hershey Medical Center.

Program keeps alive the lessons of hard labor

By PAUL A. BLAUM
Public Information

Walter Prozialek, 76, wants to give away his wealth — wealth of experience, that is. A program called the Open Hearth Education Project (OHEP) is helping him do that.

With assistance from Penn State professors **Howard Harris** and **Fred Schied**, OHEP draws on the past to help retrain and educate dislocated workers.

Workers like Prozialek know well the lessons of hard labor, having been employed in the mines at Bethlehem Steel for three different stints and with the New York Central Railroad. During his varied career, he was both worker and supervisor.

"People who work hard with their hands will look for better and easier ways to do their jobs. They have to be able to think," he said. "For instance, I remember young miners who thought digging coal was all muscle and then were surprised that they couldn't keep up with their dads. The thing was, their dads had figured out ways to pace themselves and save their energy."

Prozialek still lives close to his roots, in the rural coal-mining town of Dunlo (population 850), east of Johnstown. His dream is to pass on his knowledge of working class life to succeeding generations, for whom steel mills, railroads and coal mines are fading relics belonging to another time and place.

OHEP, founded by **Jim Abrams** and **Danny Pfeilsticker**, allows the voice of working people like Walter Prozialek to be heard by teaching them to be educators, interpreters and tour guides at industrial and ethnic heritage sites.

Based in Johnstown, OHEP grew out of the Folklife Division of America's Industrial Heritage Project. The



Steel making

Labor-intensive jobs of the past will not be forgotten, thanks to the Open Hearth Education Project. The program retrains dislocated workers from the coal, steel, railroading, garment, glass and aluminum industries to act as educators, interpreters and tour guides at industrial and ethnic heritage sites.

Folklife Division, coordinated originally by Abrams, started collecting oral histories and producing collaborative research projects with working people in 1989.

In cooperation with Penn State, OHEP offers a two-month retraining program for dislocated and retired workers from the coal, steel, railroading, garment, glass and aluminum

industries. Harris, associate professor of labor studies and industrial relations at the Penn State New Kensington Campus, and Schied, assistant professor of adult education, worked with Abrams to coordinate this certification program which began last summer with two classes: "History of the American Worker" and "Interpretive Techniques for Workers' Education."

The classes teach former miners, railroaders and factory workers how to use media technologies to educate the public about working people and the labor movement. Near the end of the course, participants give presentations which combine their newly acquired skills as interpreters with their knowledge of labor history and their own personal experiences.

"Many workers, unlike some academics, reject the notion that current economic processes are always inevitable," Schied said. "To be specific, they don't believe the U.S. steel industry necessarily had to collapse in the 1980s. In their view, if the owners had put money back into aging mills 20 or 30 years ago, steel workers might not be so economically hard pressed today."

Through OHEP, steel workers can have their viewpoints included in the public record. Otherwise, later generations will simply assume that the decline of steel was a natural progression, Harris added.

"Were going beyond the conventional, Disney-fied touristic approach," Schied said. "The labor movement is still going on in America and around the world. It isn't ready to be embalmed in formaldehyde."

Prozialek takes a more personal approach.

"I've really enjoyed sharing my work experiences with students, both boys and girls. I must distribute my wealth before I go to the cemetery," he said.

Obituaries

Katharine H. Clouser, secretary in the Graduate School, from June 1, 1954, until her retirement July 1, 1970; died July 12 at the age of 91.

Clouser was a graduate of State College High School and is survived by her daughter, **Nancy C. Thompson** of Helena, Mont.; two grandsons; and one great-grandson.

Raymond P. Cullen, community services officer at the Penn State Delaware County Campus, from Oct. 28, 1991, until his retirement Sept. 1, 1995; died June 19. He was 65.

Charles A. Gilson Sr., janitorial worker in the Office of Physical Plant, from Aug. 25, 1966, until his retirement Oct. 22, 1977; died May 4. He was 80.

Janis Russell Kokat, 58, a former music and piano teacher at Penn State, died June 8 of cancer at her home in Malvern, Pa.

For the last six years, she was employed by Rhone-Poulenc Rorer Inc. in Collegeville, working in the firm's regulatory affairs department in research and development.

A native of Great Bend, Kan., she earned a bachelor's degree in music from Oberlin Conservatory and a liberal arts degree from Oberlin College in 1959.

In 1984, she earned a bachelor's degree in mathematics at West Chester University and then went to work for Roy F. Weston Inc., an environmental management firm in West Chester, before joining Rhone-Poulenc Rorer.

Wirth V. McCoy, professor of art in the College of Arts and Architecture, from Sept. 1, 1964, until his retirement July 1, 1979; he died May 11 at the age of 82.

Paul W. Musselman, who retired from Penn State as a janitor in 1981, died Tuesday, July 9, at Centre Community Hospital. He was 80.

Musselman was a 1936 graduate of Selinsgrove High School and attended Susquehanna University, where he majored in business. He served in the U.S. Air Force for 14 years and was a veteran of World War II.

Maria E. Noss, dining hall worker for 10 years before retiring in 1958, died July 6 at the age of 93. She was a mem-

ber of the State College Evangelical Free Church and is survived by one daughter, **Elizabeth M. Byers** of State College; one son, the Rev. **Charles N. Noss** of Clinton, Tenn.; one brother, seven grandchildren and four great-grandchildren.

Phyllis Arline Durst Reeves, 73, who worked at the chemistry and physics library as well as Pattee Library, died Friday, July 5.

A 1942 graduate of Otterbein College, Reeves died graduate work at Penn State. She also worked at Schlow Library in State College. She was a member of numerous civic and charitable organizations and a volunteer at Centre Community Hospital.

Awards

Professor named 1997 Alliance Scholar

R. Scott Kretchmar, professor of exercise and sport science, has been named the 1997 Alliance Scholar by the American Alliance of Health, Physical Education, Recreation and Dance (AAHPERD).

Kretchmar is the sole recipient of the award this year. The program began in 1975.

Kretchmar, who was selected from a pool of researchers in the fields of kinesiology, health education, leisure studies and dance, will deliver the Alliance Scholar Lecture during the AAHPERD national convention and will speak before groups chosen by the AAHPERD executive committee. AAHPERD is committed to encouraging and facilitating research and creative activities to enrich the depth and scope of health, leisure, sport, dance and related activities.

Kretchmar has been at the University since 1984. From 1984-89, he served as head of the Department of Exercise and Sport Science. He also has taught at the University of Southern California, Emporia State University, SUNY Brockport and the University of Massachusetts. He is currently chair of the University Faculty Senate and is a Fellow of the American Academy of Kinesiology and Physical Education. In addition, he has written three books and had more than 30 articles published in professional journals.



R. Scott Kretchmar

Associate professor is Shenango Campus teacher of the year

Kevin Berland, associate professor of English and comparative literature at the Penn State Shenango Campus, has received the Teacher of the Year Award from that campus.

Instituted in 1984, the award recognizes outstanding educators at Shenango. Berland was selected for his willingness to support, encourage and facilitate his class students and those who participate in the honors program.

Berland received both his bachelor's degree, with first-class honors, and master's degree in English from Carleton University, Ottawa, Ontario. He also received his Ph.D. in English from McMaster University, Hamilton, Ontario, in 1983.

He began his career at Penn State Shenango in 1982 as an assistant professor of English. Since then, he was promoted to associate professor. Over the years, he has served on various campus and University committees and is a member of the University Faculty Senate; serves as coordinator of the campus Honors English Program; and co-chairs the campus honors program. In 1995, he was given the Penn State Outstanding Adult Mentor Award.

Russian Distance Learning project earns accolades

The Russian Distance Learning Project, a cooperative distance education venture between Penn State, the University of Minnesota and the U.S. Peace Corps, has received a 1996 Award for International Programs from the Association of Continuing Higher Education.

Since its inception in 1995, 80 Russian students and professionals have participated in the project. The second of two groups of 40 students is now enrolled in distance education courses in business, American government, international relations and educational systems at both universities. Students receive course materials by U.S. mail and submit lessons and communicate with instructors by electronic mail via the Internet.

The Russian Distance Learning Project also has the endorsement of the chairman of the Russian Federation State Committee on Higher Education, which is equivalent to the U.S. Secretary of Education.

The project is the first to use distance education technologies to extend American educational programming to people in the Russian provinces. Other similar programs have involved students in Moscow.

Peter K. Forster, assistant director for the Department of Distance Education, a unit of Continuing and Distance Education, and Richard Brown, program director for Independent Study at the University of Minnesota, collaborated with U.S. Peace Corps officials to develop the project for students in the cities of Volgograd and Saratov. Forster and Brown are planning to increase the involvement of Russian higher education institutions. In addition, they are culturally adapting the project to the Russian environment.

Future plans for the Russian Distance Learning Project include the development of joint certificate programs by two Big Ten universities.

Beaver Campus assistant professor honored for excellence in teaching

Robert Szymczak, assistant professor of history, is the recipient of the 1995-96 Penn State Beaver Campus Award for Excellence in Teaching.

The award is presented annually by the Beaver Campus Advisory Board, which solicits recommendations from campus students and faculty.

Szymczak also received the Beaver Campus Award for Excellence in Teaching in 1991 and has been nominated for four other University-wide teaching honors. In 1994 he received the Beaver Campus Award for Outstanding Research for his scholarship in the fields of eastern Europe, World War II diplomatic history and American ethnic politics.



Robert Szymczak

Szymczak holds a bachelor's and a master's degree in history from West Virginia University, a master of arts degree in liberal studies from Duquesne University and a doctorate in history from Carnegie Mellon University. He also received a certificate of study at the Jagiellonian University in Krakow, Poland, and has held visiting fellowships at Yale, Princeton and the University of Pennsylvania.

A Penn State faculty member since 1982, Szymczak is the author of 30 articles which have appeared in academic journals, historical magazines and other publications

and has presented 40 papers at professional conferences.

Assistant professor wins national honors

Karl Todd Mueller, assistant professor of chemistry, has been selected as one of 18 young faculty scientists nationwide to receive the 1996 Cottrell Scholar Award from the Research Corp., a foundation for the advancement of science.

This year's recipients include seven chemists, 10 physicists and an astronomer selected from among university faculty nationwide for their "excellent research proposal, good plans to improve science teaching and a vision for the improvement of the academic science community."

Mueller was recognized for his contributions to undergraduate and graduate teaching and his commitment to pursuing a career as a teacher-scholar.

This award will help support Mueller's research in nuclear magnetic resonance spectroscopy.

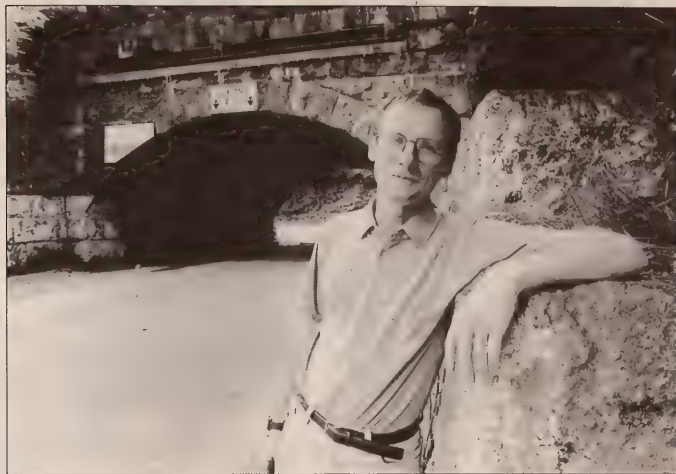
The Cottrell Scholar Award is named in honor of Frederick Gardner Cottrell, the scientist, inventor and philanthropist who established Research Corporation in 1912. The foundation's goal is "to make inventions more available and effective in the useful arts and to provide means for scientific research and experimentation."

Scientist garners Searle Scholar Award

J. Martin Bollinger Jr., assistant professor of biochemistry and molecular biology, is one of 15 scientists nationwide to receive a 1996 Searle Scholar Award.

According to the Searle Scholar Program, this year's winners, chosen from 160 candidates at 86 universities, were selected for exhibiting "evidence of having the potential to make significant contributions to biomedical research over an extended period of time." The awards are intended for young biomedical scientists who are newly appointed assistant professors. Each Searle Scholar is awarded a three-year grant of \$180,000 to support his or her research efforts. Bollinger's research concerns mechanisms of assembly of complex metal ion cofactors in enzymes and regulatory proteins. His research addresses this issue in several systems with relevance to human health.

Bollinger earned his bachelor's degree in chemistry in 1986 at Penn State and a doctoral degree in biochemistry in 1993 from the Massachusetts Institute of Technology. He was a postdoctoral fellow at Harvard Medical School before joining the Penn State faculty in 1995.



Although there is no single accepted procedure for determining the load-carrying capacity of a masonry arch bridge, Thomas E. Boothby said just looking at the bridge may become an important part of the rating process. Boothby's research shows specific wear patterns on this type of bridge that may help predict bridge failure.

Photo: Greg Grieco

Engineering study tells when stone bridges are falling down

By BARBARA HALE
Public Information

Nursery songs to the contrary, it's not easy to determine whether any given stone bridge is in danger of collapse.

However, an architectural engineer is making progress on identifying the characteristics that signal failure in these historic and often beautiful structures. His work promises to contribute to historic preservation as well as public safety.

Thomas E. Boothby, assistant professor of architectural engineering and research associate in Penn State's Pennsylvania Transportation Institute, published early results of his work in a paper, *Collapse Modes of Masonry Arch Bridges*, in *Masonry International*.

He notes that more than

500 stone, arched bridges are currently in service in the eastern United States alone. Many of these structures, which were built primarily in the 19th century, are listed on or are eligible for listing in the National Register of Historic Places. Their preservation is often mandated by Federal guidelines.

Boothby said, "At present, there is no accepted procedure for determining the load carrying capacity of a masonry arch bridge." However, as a result of the engineer's analyses, just looking at the bridge may become an important part of the load rating process.

In his recent paper, Boothby wrote, "The identification of collapse mechanisms provides an important tool for the visual inspection of arch bridge structures by furnishing a pattern of expected damage."

Boothby analyzed three types of failure unique to stone bridges in his paper, including "hinging," in which a space opens between two stones in the arch; "sliding," in which a stone slips out of place; and a combination of hinging and sliding in which both of the defects occur.

Boothby writes that the combination mode is most likely found in bridges with low rise/span ratios. Hinging predominates in structures with high rise/span ratio and narrow arch rings or structures that are well buttressed.

Sliding modes of collapse have not been observed in the ultimate load tests that have been conducted on masonry arch bridges in England where there are almost 100 times as many stone bridges as in the United States, he said. However, he thinks this is possibly due to the massive

abutments on the bridges in England. Bridges in the U.S. have smaller abutments and it's therefore more important to look for evidence of sliding in the United States.

Boothby, who was trained both as an architect and as a civil engineer, has also received training as a stone mason. He participated in the stone cutting program offered at the Cathedral of St. John the Divine in New York City and also works with local mason Philip Hawk.

He is interested in historic buildings as well as bridges and is collaborating with Elizabeth Bradford Smith, associate professor of art history, on the interpretation of medieval architecture, and with Charlene Roise, an architectural historian in Minneapolis, on methods to preserve buildings constructed in the recent past.

Scientists use zebra fish to unlock mutations' secrets

Geneticists at The Milton S. Eisenhower Medical Center are breeding and studying an inch-long tropical fish to try to gain insight into why and how genetic mutations occur, as well as their potential roles in cancer.

Keith Cheng, assistant professor of pathology and biochemistry and molecular biology, said he and his research team hope to find new methods to detect genetic damage in the fish, which can potentially be used to test for toxicity of environmental cancer-causing agents.

Cheng has built elaborate fish facilities on the seventh floor of the Biomedical Research Building and in the animal facility, where he and his research team carefully breed colonies of zebra fish.

"At this point, we're looking for new genes and their role in the genome," he said.

Cheng believes that the tendency of zebra fish to develop cancer while carrying genetic damage, or mutations, will provide an animal model for certain human genetic syndromes that predispose people to cancer.

He and postdoctoral fellow Jessica Moore are using a traditional approach to study genetic instability. The researchers expose the fish to a potent chemical mutagen, ethylnitrosourea, or ENU. According to Cheng, ENU "breaks up" genes. The researchers will look for mutant fish whose DNA has become unstable, then attempt to identify the genes damaged by ENU that are responsible for the instability.

Developmental biologists have used zebra fish, particularly in the last five years, to learn how vertebrate organisms grow and mature, all the while dissecting the genetics involved. The zebra fish is a developmental biology model, a small, easily manipulated organism that can be studied in molecular detail, much like the classic laboratory fruit fly. Yet the fish essentially provide a vertebrate model to study the development of the brain and spinal cord in creatures such as humans. The fish are inexpensive and relatively easy to use, Cheng said.

The developing fish embryos are transparent and can be examined under a microscope step by developmental step. Within a day after conception, a single fertilized egg develops into a transparent embryo with eyes and a beating heart.

Cheng believes that he and Moore are the first to use zebra fish to study genetic instability and cancer development.

The
Milton S.
Eisenhower
Medical
Center

WEB BROWSER

By DOUG STANFIELD
technology editor

LionCam location suggestions sought

The "LionCam" (pictures from which are viewable on the Web at <http://www.ur.psu.edu/cam/lioncam.html>) is moving to a new physical location soon, but we're soliciting suggestions for other good camera locations at University Park for future use.

Here are the LionCam site requirements:

- A secure, lockable, indoor location with an interesting and unobstructed view of campus.

- A dedicated backbone connection and convenient power supply.

- A loaner computer (preferably a Macintosh of the Mac II line or later, with a NU BUS connection for video card, and ethernet capabilities for networking).

The camera that has been mounted in the fourth floor of Old Main since the Arts Festival is going to be moved soon to Carnegie Building. The new view will be of the mall area between Schwab Auditorium and Willard Building, and the heavily traveled sidewalks on either side of Pollock Road in that area.

Another camera location is being scouted for fall football views at Beaver Stadium.

Please send suggestions via e-mail to Doug Stanfield@psu.edu.

Other Sites

The following Web site is an online reference desk, and there's something here for almost anyone. There are sections on things like time and weather, phone numbers and area codes, postal delivery services, online books, dictionaries, encyclopedias, writing aids, law and legal information and much more.

My thanks to Jane Houlihan for this one. I use it all the time. URL: <http://www.sil.org/general/reference.html>

If you know of an unusual or particularly interesting use of the Web, please send the URL to Doug Stanfield@psu.edu.



Memorable moment

In 1983, President Ronald Reagan, third from left, presented Fred Waring, second from left, with the Gold Medal of Congress. Waring's wife, Virginia Waring, has donated the medal to the University Libraries' Fred Waring Collection.

Archive photo: Courtesy Pattee Library

Waring's Gold Medal of Congress donated to University Libraries

The original Gold Medal of Congress awarded to **Fred Waring**, the well-known composer and musical director, has been donated to the University Libraries' Fred Waring Collection by **Virginia Waring**, wife of the entertainer.

Fred Waring and the Pennsylvanians entertained America for 69 years. Waring was awarded the medal "for his achievements as composer musical director educator ... for the pleasure

given countless admirers through music and song." He was only the third entertainer after Bob Hope and John Wayne to be honored with this award.

The medal was presented to Waring by President Ronald Reagan at the White House on Dec. 15, 1983. A joint resolution passed by both houses of Congress allowed for an appropriation of no more than \$20,000 for the design,

creation and striking of the medal. It also authorized the Treasury Department to make bronze duplicates for sale to the public which would recoup the expense of the medal.

For display purposes the collection has several of the bronze replicas of the medal. The actual gold medal can be found in the Rare Books Room of Pattee Library on the University Park Campus.

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Summer fun

There's still a little bit of tree-climbing weather left before fall makes its appearance, and Elaine Tillotson, 3, a daughter of Catherine Harmonosky, associate professor in the College of Engineering, and Rick Tillotson, research assistant in the Applied Research Laboratory, took an opportunity to enjoy it recently. She was spotted outside the Creamery on the University Park Campus during an Office of Summer Sessions-sponsored Ice Cream Diversions program.

Photo: Andrea Hurley

Spanier to announce initiatives in State of the University address

By LISA M. ROSELLINI
Public Information

With more than a year of experience as Penn State's president under his belt, Graham B. Spanier will outline his plans for the coming year in the annual State of the University Address set for 4 p.m. Friday, Sept. 6, in Eisenhower Auditorium on the University Park Campus.

An open reception from 5 to 6:30 p.m. in the HUB Ballroom will follow.

Last year, just 15 days into his presidency, Spanier took to the podium to not only introduce himself to the University community but to reveal his vision for Penn State. The blueprint laid out by Spanier during that talk promised change and unveiled a goal of making Penn State the best at integrating its three mis-

sions of service, teaching and research. He also said he would work to expand the public's confidence in both higher education and Penn State.

This year, Spanier plans to announce several initiatives of importance to the future of Penn State. Without disclosing the content of his speech, Spanier said his annual talk with the University community is

See "Address" on page 3

Planning and Analysis, CQI offices to merge

The Center for Continuous Quality Improvement and the Office of Planning and Analysis will be merged on Sept. 1 to create the Center for Quality and Planning, according to John Brighton, executive vice president and provost.

The combination of the two offices, both located in Old Main and reporting to the provost, is the result of a review that took place following the announcement by Greg Lozier, executive director of the planning office, that he was leaving the University to accept a new position. (Please see story on page 13.)

Louise Sandmeyer, executive director of the CQI Center, will assume responsibility as executive director of the combined unit.

See "Merge" on page 3

Airport expansion project taking off



The construction of the extension of the main runway at the University Park Airport in Centre County will begin this fall and continue a long-range improvement plan designed to meet the existing and growing demand for air service by Central Pennsylvania travelers.

The airport serves as a gateway for Penn State and other major employers in the region, and is the seventh busiest airport out of 16 scheduled service airports in the Commonwealth, with nearly 200,000 passengers using the airline terminal last year.

State and federal transportation

See "Airport" on page 3

Inside



Bryce Jordan Center

A full slate of entertainment is planned this fall at the center, including a concert featuring Ozzy Osbourne and a night of magic with David Copperfield. For details, please see page 8.



Research

A geography graduate student has done research revealing that some ecosystems are fire dependent. For details, please see page 15.

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Award recognizes namesake's global efforts

By AMY OAKES
Public Information

Penn State's International Achievement Award has been renamed the W. LaMarr Kopp International Achievement Award in honor of the retiring deputy vice president for international programs, who will step down Aug. 31. Kopp is being honored for his efforts to make the University part of the global community.

Kopp, who has been with the University for more than 33 years — serving in a number of administrative positions for the last 25 years — said he is happy to be remembered in such a way.

"It's the greatest honor I can imagine," he said.

The award, in its third year, recognizes an undergraduate student, a graduate student and a faculty member for their contribution to the advancement of the University's global mission. Criteria for the undergraduate and graduate awards include service to the international community and research with a significant international component. Requirements for the faculty award include achievement in international education and a commitment to meeting the special needs of students and faculty from other countries. Each award carries a \$1,000 stipend and a certificate of recognition.

Kopp said the award serves three purposes: as a stimulus for others to become involved in international studies; as a way to honor the work of people striving to bring the global community closer; and as a way to show the University's commitment to internationalization.

"LaMarr Kopp is truly one of the pioneers of international education," said John Brighton, executive vice president and provost. "Under his guidance, Penn State has streamlined its international

"This is an interdependent world, in which we have to know our neighbors and to understand that they have their own priorities, just as we do. It is incumbent on us in our role as educators to develop a generation of new leaders who are globally informed."

W. LaMarr Kopp
retiring deputy vice president
for international programs

operations and expanded its programs and goals to enhance the intercultural understanding of students and the University community as a whole. It is fitting that this award should carry his name."

The renaming of the award will not only honor Kopp's work in bringing Penn State into the world community but his lifelong efforts to bring the global village closer and make it more accessible.

"This is an interdependent world, in which we have to know our neighbors and to understand that they have their own priorities, just as we do. It is incumbent on us in our role as educators to develop a generation of new leaders who are globally informed," Kopp said.

Kopp was heavily involved in the plan for internationalizing the University put forth in 1994 by the International Council. His office is responsible for Penn State's 42 Education Abroad Programs, for 2,500 international students from more than 110 countries and for international cooperative pro-

grams, including agreements and cooperative projects with some 90 partner universities around the world.

In 1983, Kopp played a key role in establishing and organizing the University Office of International Programs with three divisions: the Office of International Students, the Office of Education Abroad Programs and the Office of International Cooperative Programs.

Before accepting his position as deputy vice president for international programs, Kopp, a professor of German, was also an assistant and associate dean in the College of the Liberal Arts, director of the Foreign Studies Program and associate provost for International Programs. Kopp also has served as an officer for national organizations, such as the American Association for Teachers of German, the Council of Colleges of Arts and Sciences and the Council on International Educational Exchange.

Before coming to the University, Kopp served as executive director of the International Voluntary Service Organization in Switzerland and worked with the Deputy Prime Minister's Office on Technical Service Agreements in the Royal Government in Swaziland.

Kopp was made an instructor of German at Penn State in 1962 and was named professor in 1975.

Finalists for 1996/1997 award will be named in January.

This year, the award's selection committee is chaired by Norman Freed, associate dean in the Eberly College of Science. Committee members are: Thomas Hale, professor of African, French and comparative literature; Courtney Mundy, undergraduate student in music; Noriko Toyokawa, graduate student in health education; and Richard Devon, associate professor of engineering.

Behrend begins construction on residence hall

Ground was broken Aug. 2 for a new residence hall for University scholars and honors students studying at Penn State Erie, The Behrend College, a move that will increase the number of dedicated housing spaces for this group of students from 32 to 108.

The Almy Hall Living and Learning Center will house 128 students in single-sex suites of four students each. Twenty percent of the available space is open to any student. Each wing of 16 students has its own study lounge; all students agree to abide by quiet study policies. The new hall is intended to be a living and learning environment that fosters academic excellence, out-of-classroom intellectual and social experiences and mentoring relationships.

Located west of a trio of suite-style residence halls built in 1991, Almy Hall is named after Thomas C. Almy, sailing master of the schooner Somers, part of Oliver Hazard Perry's fleet. The naming of the hall follows college tradition that residential facilities bear the monikers of people and ships associated with the Battle of Lake Erie.

Construction of the new residence hall, estimated at \$4.4 million, is funded by Penn State Housing and Food Services.



Hands-on learning

Marianna Blue-Lenze, left, Natascha Pockel, Suzie Patterson and Elizabeth Ferry work to devise a delivery system to separate two whistle balls and one golf ball during a Women in Engineering camp for high school students. The three-day summer camp was held on the University Park Campus.

Photo: Greg Grieco

Airport

continued from page 1

officials joined Penn State administrators in a groundbreaking ceremony Aug. 20. With the receipt in May of the final \$11.9 million in grants from the Federal Aviation Administration and the Pennsylvania Department of Transportation, the last of the funding was in place for the runway extension. About \$6.1 million had been previously released from federal and state agencies for design, engineering and the initial construction phase of the project. The total project cost is estimated at approximately \$18 million. The project includes the lengthening of the runway from its current 5,000 feet to an ultimate length of 6,700 feet, as well as other supporting infrastructure improvements.

The runway extension stemmed from the need of corporate aircraft and some commuter aircraft for additional runway length to allow them to carry their designed load of passengers, baggage and fuel on hot days. The project also includes the replacement of aging runway and taxiway lighting and wiring, the widening of taxiways to bring them to current standards and the repair and strengthening of existing 20-year-old pavement.



Up, up and away

The University Park Airport expansion project will extend the main runway, enabling larger planes like this corporate jet to carry their full loads on warmer days. The project will also repair and strengthen existing pavement.

Photo: Greg Grieco

The airport is home to nearly 40-based aircraft and hosts 54,000 take-offs and landings a year. Three airlines — USAir, United and Northwest — have established nearly 40 regularly scheduled daily flights to and from the hub cities of Philadelphia, Pittsburgh, Washington, D.C. and Detroit.

In addition to serving area businesses and travelers, the airport is home to many aviation-related services. It is used by various law enforcement agencies and emergency medical services and hosts the Pennsylvania Air National Guard 114th Air Traffic Control Flight.

The airport tenants and visitors to the University Park Airport generate significant economic benefits on an annual basis, providing 139 jobs and \$12 million in payroll. But a recent report estimated the impact of direct spending and secondary visitor-related spending at \$68 million.

Address

continued from page 1

an important message that would convey some key goals for the coming year. The president urged all faculty and staff to attend because the speech will cover issues vital to the entire University community. The speech will be broadcast via satellite to all campus locations outside of University Park. For information on where you can view the address live, contact the public information officer at your campus. Text of the address also will appear after the event on the World Wide Web at URL <http://www.ar.psu.edu/>

"My vision is still to be the top institution in the United States in the integration of teaching, research and service. That has not changed," Spanier said. "What will continue to evolve is the way we accomplish this vision."

Over the past year, Spanier has announced historic changes to be instituted in both Penn State Cooperative Extension and the 23-campus Commonwealth Educational System — two key components in the University's makeover.

Following the course he charted during his first University-wide speech, Spanier embarked on a yearlong tour of the Commonwealth; met with scores of community leaders, alumni, agricultural and industrial leaders, media and prospective students; traveled to Harrisburg to testify on several occasions on behalf of additional state funding for higher education; took new faculty members across the state to visit various sites; and responded to more than 10,000 e-mail messages.



Who: President Graham B. Spanier

What: State of the University Address

When: Friday, Sept. 6

Where: Eisenhower Auditorium on the University Park Campus; address will also be broadcast live via satellite to Commonwealth Campuses

Merge

continued from page 1

"This restructuring will allow Penn State to continue to move forward with its important efforts in continuous quality improvement and strategic planning," Brighton said. "The center will work closely with the Office of Budget and Resource Analysis to provide staff support for activities related to the planning and budget process."

In recent years the planning office has been involved in the University Future process and more currently in the efforts of the University Planning Council to engage in a five-year strategic planning process for Penn State.

The CQI Center, under Sandmeyer's guidance, has been instrumental in bringing continuous quality improvement philosophy and practice to Penn State. By employing a customer-focused approach, CQI teams at all levels of the University have implemented changes that enhance value and efficiency.

Sandmeyer will join the University Planning Council, chaired by Brighton, and assist in supporting its activities.

"Louise Sandmeyer has been instrumental in introducing CQI ideas throughout the Penn State system in recent years," Brighton said. "She has worked closely with the planning office in the past and this opportunity to combine efforts, and staff, will help us integrate the University's efforts in these two important areas."



Louise Sandmeyer

LECTURES

Seminar gives input on choosing a publisher

The seminar "Choosing the Right Publisher: A Bookseller's Perspective on Academic Publishing," will be presented on three separate dates this fall.

The seminar, designed to help participants clarify their publishing objectives and understand their options better, will include an introduction where participants will define their publishing objectives and goals. Presentations will include topics such as "The Book Business," everything you need to know about the different types of books, distribution methods, and the publishers' and booksellers' points of view; "The University Press," how the university presses—especially the smaller up-and-coming presses—acquire, edit, print and promote their titles; "Making the Best Match," questions to ask yourself, questions to ask your prospective publisher(s), evaluating the answers; and "Marketing Your Books."

Michael Svoboda, founder and president of Svoboda's Books in

downtown State College, and Peter J. Potter, editor of history and social science at the Penn State Press, will present the material.

Svoboda has a B.S. in communication arts from Cornell, a master's in speech communication from Penn State, and was A.B.D. in an interdisciplinary Ph.D. when he opened his store. He also is the host/producer of Libri, a weekly radio book review, for WPSU.

Potter came to Penn State in 1990 after four years at the Wesleyan University Press. A historian by training, he received his B.A. in 1984 from Virginia Tech and his master's in 1991 from the University of Virginia.

The seminar will be held from 7 to 10 p.m. Sept. 10 at the Nittany Lion Inn, and on Oct. 6 and Nov. 4 at The Penn State Scanticon. The fee to attend is \$25. To receive a brochure, send 14 (800) PSU-TODAY or visit the World Wide Web site at [http://www.cde.psu.edu/C&I\(rightpublisher/](http://www.cde.psu.edu/C&I(rightpublisher/)

Lecture zooms in on planets outside our solar system

Penn State Erie, The Behrend College, will hold an open house night in astronomy Thursday, Sept. 5, at 7:30 p.m. in Reed Lecture Hall. Alexander Wolszczan, distinguished professor of astronomy and astrophysics at University Park, will present "Planets Around Nonstar Stars and Elsewhere."

Wolszczan discovered the first planets outside of our solar system and is a leading source of insight on new astronomical findings. Wolszczan will discuss basic techniques of planetary searches, recent detections of planets orbiting pulsars and sun-like stars and future opportunities to identify terrestrial planets and life beyond Earth.

Wolszczan is the 1996 winner of the Beatrice M. Tinsley Prize for innovative and creative contributions to our understanding of the universe.

Free seminar previews all-day session

To learn how to develop an irresistible idea for your grant application, attend a free seminar by Stephen W. Russell of Grant Writers' Seminars and Workshops.

The seminar, to be held from 4 to 5 p.m. Tuesday, Sept. 3, in Kern Auditorium on the University Park Campus, will preview an all-day program, "Writing Winning Grants," to be held Saturday, Oct. 5. The registration fee

for the prize committee cited Wolszczan for his analysis of binary and relativistic pulsars, which led to the discovery of planets outside our solar system.

Wolszczan, who was born and educated in Poland, received his Ph.D. in physics in 1975 at The Nicholas Copernicus University in Torun. He was a professor there during the 1970s and also worked at Max-Planck-Institut für Radioastronomie in Bonn, Germany. Since 1983, he has taught and done research at Arecibo Observatory and Princeton University before joining Penn State's University Park astronomy department.

Following the lecture there will be astronomical viewing, weather permitting. Admission is free. Call (814) 898-6105 for reservations.

for that \$100 for faculty and staff and \$25 for post-doctorate and graduate students. Registration materials for the all-day seminar will be available at the preview seminar and from the Faculty Senate office in Birch Cottage on the University Park Campus.

The free seminar is sponsored by the Penn State Faculty Senate Committee on Research. For more information, call (814) 863-0221.

Noted columnist to launch speakers series

William Safire, perhaps best known for his semi-weekly *New York Times* political column, will present the 1996 Robert M. Pockross Memorial Lecture at 8 p.m. Tuesday, Sept. 3, in Schwab Auditorium on the University Park Campus. Safire's lecture, "What's Going on in Washington," is part of the 1996-97 Distinguished Speakers Series, "Issues and Inspiration," and is co-sponsored by the College of Communications.

Safire began writing his Pulitzer Prize-winning column for the *New York Times* more than 20 years ago, approaching political issues from the perspective of a libertarian conservative. But the writer has won a number of hats throughout his prolific career. He began as a reporter and columnist for the *New York Herald Tribune* and went on to serve as a correspondent for several New York radio and television stations. He also burrowed under political dog's noses to work on the first Eisenhower presidential campaign and to serve as a speechwriter for the Nixon White House.

Today, Safire is almost as well-known in literary circles as in political ones. His first novel, *Full Disclosure*, spent 14 weeks on the best-seller list. He is also author of *Before the Fall*, a history of the pre-Watergate White House; *Safire's Washington*, a collection of his political columns; and *Safire's New Political Dictionary*, a 500,000-word study of words that have inspired and influenced the electorate. His latest novel is *Sleeper Spy*.

The Pockross lecture, named after the late Robert M. Pockross, a member of the journalism faculty from 1948 to 1977, is free to the public. Pockross, who specialized in public opinion and popular culture, served as the former School of the United States. Her talker and taught radio news writing.

Other lectures in the Distinguished Speakers Series are:

■ Wednesday, Sept. 18, Eisenhower Auditorium: Jocelyn Elders, a pediatric endocrinologist, served as the first African-American Surgeon General of the United States. Her talk will relate issues of health care and personal responsibility. Co-sponsored by Health Promotions Education, The Center for Women Students, the College of Health and Human Development and the Black Caucus.

■ Monday, Oct. 21, Schwab Auditorium: Ed Koch, former mayor of New York City, who remains involved in elective politics, will talk on "What it Takes to be Elected in America Today." Co-sponsored by the Undergraduate Student Government. Tickets required.

■ Tuesday, Oct. 29, Bryce Jordan Center: F. W. deKlerk, former president of South Africa and co-recipient with Nelson Mandela of a Nobel Peace Prize, introduced initiatives that led directly to South Africa's first-ever universal free election in 1994. DeKlerk now holds the post of executive deputy president. Co-sponsored by the Black Caucus, the Undergraduate Student Government, ARHS and The Take a Stand Committee. Tickets required.

■ Tuesday, Nov. 19, Schwab Auditorium: Olympia Dukakis, Academy Award- and Golden Globe-winning actress of such films as *Moonstruck* and *Steel Magnolias*, is also a leading advocate for women's rights. Co-sponsored by Panhellenic Council's Women's Awareness Week and The Center for Women Students. Tickets required.

■ Monday, March 24, Eisenhower Auditorium: Tony Kushner, award-winning author of *Angels in America*, is a prominent voice for the gay community. His lecture is co-sponsored by LGBSA. Tickets required.

■ Wednesday, April 16, Eisenhower Auditorium: Jane Goodall, founder of the Combe Stream Research Center for study of the behavior of wild chimpanzees, lectures throughout the world on her discoveries and the plight of chimpanzees and all animals. Hers will be a multi-media presentation, co-sponsored by the Department of Anthropology and The Center for Women Students. Tickets required.

The lecture series is presented by the Programming Coordination Board. For more information, contact Carol German, Office of Student Activities, at (814) 863-3786.

All lectures will begin at 8 p.m. and are free, although some will require tickets which will be available in 225 HUB about two weeks before the lecture.

Lectures to be given in January and February will be announced at a later date.

Transport theory course available

The Penn State Transport Theory Group, directed by Allireza Haghighat and Bojan Petrovic, has established an annual training course/workshop on "Methodologies for Particle Transport Simulations."

The course focuses on deterministic discrete ordinates and statistical Monte Carlo particle transport theory methods. Through a series of lectures, discussions and computer exercises, the workshop introduces the codes,

cross-section libraries, methodologies and available sources of information.

Participants are provided course materials and access to UNIX based IBM RISC workstations.

Anyone interested in attending or purchasing the manual, please contact Haghighat at (814) 865-0039 or by e-mail at haghighat@gracie.psu.edu; or contact Petrovic at (814) 863-2852; or e-mail at petrovic@gracie.psu.edu.

More Lectures

Palliative care lectureship established in Hershey

Derek Doyle of Edinburgh, Scotland, a world leader in the field of hospice care and palliative medicine, will visit The Hershey Medical Center Sept. 16 and 17 as the inaugural lecturer in the newly endowed Driskill Lectureship in Palliative Care.

Palliative care refers to care given to people in the final stages of life.

Doyle's lecture at 4 p.m. Tuesday, Sept. 17, in the hospital auditorium is open to the public. In addition, the lectureship will include such activities as rounds and consultations with members of the medical center's pain medicine and palliative care team and discussions with medical students and other interested faculty and staff.

The Driskill Lectureship was established through the generosity of the Walter S. and Lucienne B. Driskill Foundation. Its purpose is to bring annually to the medical center a nationally or internationally recognized expert in palliative care for the advancement of knowledge and practice related to the care of dying



patients and attention to the needs of their families.

Doyle was qualified in medicine from the University of Edinburgh in 1955 and accredited as a specialist in chest medicine. He was in family practice in Edinburgh and held a hospital appointment with responsibility for 120 beds in a teaching hospital. In 1977 he was appointed the first medical director and consultant physician of St. Columba's Hospice in Edinburgh and he was an honorary consultant in the National Health Service and a member of the clinical teaching staff of the University Department of Medicine. He retired from those posts in 1995.

Doyle was the first editor-in-chief of the international journal *Palliative Medicine*, and a co-editor of the reference *Oxford Textbook of Palliative Medicine*.

Business lecture series starts Sept. 11

"Transformational Leadership: Today's Secret to Corporate Success" will look at the qualities that corporate leaders have in common in an effort to help others motivate and empower followers. The Sept. 11 lecture will be presented by **Stephen P. Schappe**, assistant professor of management at Penn State Harrisburg, is part of the 1996 Downtown Harrisburg Lecture Series: Current Issues in Business.

Issues to be discussed during the noon presentation include how to have transformational leaders; articulate a motivating vision; engage in framing to give meaning and purpose to actions expected from followers; and mobilize commitment.

Schappe received his Ph.D. in labor and human resources from The Ohio State University. He has been employed by the Buick-Oldsmobile-

Cadillac Group of GM and Bernie Hoffman Associates, a health care management consulting firm. In addition, he has worked as a consultant.

Upcoming lectures include: "Organizational Culture and Employee Participation," Oct. 9; presented by **David Morand**, assistant professor of management at Penn State Harrisburg;

"Promises and Pitfalls of Changes in Tax Policies," Nov. 12; presented by **John Harris**, assistant professor of accounting at Penn State Harrisburg; and

"Market Trends in Health Care," Dec. 3; presented by **C.M. Galaher**, regulatory affairs director for Pennsylvania Blue Shield.

To register for any or all of the lectures, call the Eastgate Center at (717) 772-3590.

Trilogy examines the role of religion

"Values in the Community," a series of three presentations sponsored by Student Affairs and the Center for Ethics and Religious Affairs, will be held this fall on the University Park Campus.

The first topic will be "New Occasions Teach New Duties: The Role of Religion on Campus Now (and Then)" at 7:30 p.m. Monday, Sept. 9, in the Fetzel Union Building Assembly Room. **Richard M. Joel**, international director, Hillel, The Foundation of Campus Jewish Life in Washington, D.C., will present the discussion.

The second session at 7:30 p.m. Thursday, Oct. 3, in 101 Kern Building will focus on "Legal Implications for Religion On Campus: Post-Rosenberg-

er." **Gary Pavela** of the University of Maryland, College Park, will lead the talk. **Clay Calvert**, assistant professor of communications at the Pennsylvania Center for the First Amendment, will also be on hand.

The final session will be at 7:30 p.m. Wednesday, Nov. 6, in 101 Kern. **Conrad Cherry** of Indiana University and **Purdue University** at Indianapolis will present "The Role of Religion in the Global University." **Anne Carver Rose**, associate professor of history and religious studies at Penn State, will serve as faculty respondent.

For more information about the programs, contact the Center for Ethics and Religious Affairs at (610) 865-6548.

Leadership conference for women planned for Oct. 3

An Oct. 3 leadership conference for women at the Nittany Lion Inn on the University Park Campus will offer sessions to help women in areas ranging from developing skills and balancing home and work, to managing conflict and understanding menopause.

"Turning Your Vision into Reality," a daylong conference from 8 a.m. to 5 p.m. sponsored by the Human Resource Development Center, will include three sessions with a variety of offerings. The sessions include:

■ "Demystifying Gender Communication: Exploring Differences," presented by **Cynthia M. Finch**, senior lecturer in speech communication;

■ "Developing Effective Study Skills for Returning Adult Students," presented by **Jean Duffy**, academic counselor;

■ "Managing Change So It Doesn't Manage You," presented by **Betty Roberts**, assistant vice president, Business Services;

■ "Managing Conflict: Focusing on Interests, Not Positions," presented by **Jennifer Adams Mastroski**, assistant professor of administration of justice; ■ "Preparing Healthy Meals in a Hurry," given by **Linda Tobin**, health promotion specialist;

■ "Having It All: Balancing Work and Family," presented by **Cynthia Gisco**, employee assistance coordinator with Merit Behavior Care Corp.

■ "Penn State Backbone: Gateway to the World," presented by **Robin Anderson**, information consultant;

■ "Embracing Possibilities: Development Opportunities at Penn State," by **Deborah H. Matson**, staff assistant, **Deborah Hoar**, director of facilities, resources and planning in the Office of Physical Plant, **Kathy Matson**, administrative assistant, and **Kim Townsend**, human resource development specialist;

■ "Writing Your Proactive Biography," presented by **Monica Zeigler**, wellness counselor with Be Well Associates;

■ "Financial Planning and Your University Benefits," given by **Phil Carlin**, benefits specialist;

■ "Understanding Menopause: What to Expect and How to Handle Changes," presented by **Elisha Nixon**, counselor; and

■ "Mentoring Can Make It Happen," to be given by **Louise Sandmeyer**, executive director of CQI.

Registration is required. To register for any session or for more information, call HRDC at (610) 865-8216.

Conference of interest to statisticians, demographers and sociologists

Statisticians, demographers and sociologists familiar with the career of the late **Clifford Clogg**, distinguished professor of sociology and professor of statistics, may want to attend this conference exploring his legacy to the science. "Social Science and Statistics: In Honor of the Late Clifford C. Clogg" will be held Sept. 26-28 at The Penn State University.

This interdisciplinary conference will include invited papers organized around "Methodological Issues in Labor Force Demography," "Demographic Methodology," "Official Statistics: The 2000 Census," "Latent Structure Models and Their Applications," "Categorical Data Analysis," "Mixture Models," "Analysis of Missing Data" and "Model Selection Indices and Strategies." Contributed papers and poster sessions will also be held.

The keynote address will be delivered by **Leo A. Goodman**, professor of statistics and sociology, University of California at Berkeley.

The conference is sponsored cooperatively by Penn State, the National Science Foundation, the Government Statistics and Social Statistics sections of the American Statistical Association and the Methodology Section of the American Sociological Association.

For information on program content, contact **Mark Becker**, program co-chairman, University of Michigan, Department of Social Statistics, Ann Arbor, Mich. 48109-2029, e-mail: mbecker@umich.edu; or **Michael Sobel**, University of Arizona, Department of Sociology, Social Sciences Building, Room 400, Tucson, Ariz. 85721, e-mail: sobel@u.arizona.edu. For information about registration or accommodations, contact **Chris Schultz** at (610) 863-5130, e-mail: ConferenceInfo@cdc.psu.edu.

Deadline to register is Sept. 5. For registration information, call (800) PSL-TO-PDA or Goodman, professor of statistics and sociology, University of California at Berkeley.

Workshop delves into women's pasts

"The Past We Tell Ourselves: Women, History and American Culture," a free workshop at the Penn State Downtown Center in Harrisburg, will be presented from 8:30 to 10 a.m. Wednesday, Sept. 17.

The workshop will feature **Linda K. Kerber**, the May Brodbeck professor in the liberal arts and professor of history at the University of Iowa. Kerber has served as president of the American Studies Association and, in 1996-97, will serve as president of the

Organization of American Historians. She received her Ph.D. from Columbia University and is one of the leading women's historians. Her books include *Women and the Republic: Intellect and Ideology in Revolutionary America* (1980); *Women's America: Rejoicing the Past* (1982, 1987, 1991 and 1995); and *U.S. History as Women's History: New Feminist Essays* (1995).

To register for this workshop, please call the Downtown Center at (717) 783-0433.

Faculty/Staff Alerts

Skateboarding prohibited

The Department of University Safety has released new regulations for users of skateboards and in-line skates on University property. The new rules are:

- The use of skateboards on campus is not allowed.

■ Acrobatics on in-line skates or roller skates are not allowed. "Acrobatics," according to the department, is "any action in which both blades or skates are off the sidewalk simultaneously."

Also, all bicycles and mopeds on campus must be registered. On the University Park Campus, bicycles and mopeds must be brought to kiosks in the visitor parking lots for inspection, registration and permit issuing from 7 a.m. to 4:30 p.m., Monday through Friday. At other times, bikes and mopeds can be registered at Police Services in the Eisenhower Parking Deck. By reciprocal agreement, borough-issued bicycle and moped registration stickers are valid on campus, and vice versa.

To be registered, bicycles and mopeds must be in good condition and be equipped with a rear tail light or reflector that meets department specifications and a headlamp if the vehicle will be used at night.

Harrisburg changes

The Institute of State and Regional Affairs and its affiliate, the Pennsylvania State Data Center, have become a Penn State Harrisburg college-wide resource. The Institute and Data Center were formerly affiliated with the School of Public Affairs. Michael Behney, reporting to Howard Sachs, associate dean for research and graduate studies, will continue as institute director.

The institute will be headed by an academic director, who will, as an appointee of Harrisburg's provost, serve a three-year term. Harrisburg's Academic Council will serve as an advisory committee to the academic director of the institute.

Two study committees recommended the change as a step toward integrating the institute's activities with the rest of Penn State Harrisburg and opening up opportunities for all faculty to participate in the institute's current and future activities.

U.S. Postal Service reclassification

On July 1, the U.S. Postal Service announced its plan to implement the reclassification of mail. The program is the result of the Postal Service's movement toward increased automation, with the goal of increasing efficiency in mail sorting. Mail that has been pre-bar-coded at the point of generation will result in more consistent and timely delivery and will save money. Addressing Services, a division of the Department of Domestic Services and the Office of Business Services, now has the ability to lower postage costs for the University community through address verification and 11-digit barcoding.

Addressing Services has installed software that will ensure your address information is correct and eligible for the maximum postal discount. For more information about list verification and software-compatible formats, please contact Beth Catherman or Ronnie Hay at (814) 865-4051.

Fulbright deadline reminder

The deadline for the student Fulbright competition is rapidly approaching. Completed applications should be delivered to the Undergraduate Fellowships Office, 312 Willard Building on the University Park Campus, by 5 p.m. Sept. 10. Anyone with questions should call (814) 865-8199.

Fulbright opportunities

There is still time to apply for a Fulbright grant for 1997-98. Unfilled faculty and professional positions will be posted on the World Wide Web after Labor Day. The address is <http://www.cies.org>.

Deadline for the Fulbright administrator's pro-



Register early

Terry Altkin of State College, left, has her bicycle registered by Police Services officer John Torres. All bicycles and mopeds to be used on the University Park Campus must be registered.

Photo: Andrea Hurlay

gram in Germany, Japan, Korea and Britain is Nov. 1. Applications and inquiries should be directed to: Mary Gage, University Fulbright program adviser, at (814) 863-8199, (814) 865-7681; e-mail at hmg1@psu.edu

Official use of new lion design

The introduction of the new lion design earlier this month has created some confusion for University departments. Many within the University community have the misperception that the new design can be used interchangeably with any of the existing marks on University publications, stationery, etc. This is not the case, according to the Department of University Publications.

The new lion design was introduced primarily for use by manufacturers licensed to produce products bearing the University's registered trademarks. The new design captures the spirit of the Nittany Lions and Penn State sports and, as such, may also be used by Intercollegiate Athletics and other sports-related departments (i.e. club and intramural sports) at their discretion.

Identification and promotion of the University at large, or any of its academic or administrative units, is done with the University Identity Mark (Penn State with shield) and the established graphic identity system. The University Identity Mark is the official visual identity of Penn State. It represents the entire University on stationery, publications, signage and any and all academic and administrative usage. The new lion designs are not to be used in this fashion.

Questions about the use of any of the marks and designs should be directed to Jeff Hermann (jth3@psu.edu), university editor and director of publications, or Karen Magnuson (kmg9@psu.edu), assistant director of publications, at (814) 863-1870. Questions regarding the manufacture or sale of merchandise using a University design or mark should be directed to Jean Barrett (obj@psu.edu), coordinator of licensing programs, (814) 865-0356.

Smoking cessation classes

The Milton S. Hershey Medical Center is offering two eight-week smoking cessation classes beginning in September. They are open to the public.

The classes emphasize behavior modification and group support. The daytime/evening classes will be held on Thursdays, Sept. 12-Oct. 31. Daytime classes will be held from noon to 1 p.m. in Room 502 of the University Physicians Center (UPC); evening classes will be held from 7 to 8 p.m. in Dining Room D of the hospital cafeteria.

The fee for the course is \$85. The course is approved by HealthAmerica and other health-care providers for reimbursement. Check with your health plan for details.

For more information or to register, call (717) 331-6089. Registration deadline is Sept. 6.

Intercom online survey

As part of an ongoing process to evaluate content, design and readership of the *Intercom*, both its paper version and online form, readers are asked to go to the *Intercom* World Wide Web site at <http://www.ur.psu.edu/Intercom/home.html> and read the online version. From there, click on the link for the "Readership Survey" and fill out the short questionnaire. The information you provide will be confidential and helpful in guiding the *Intercom* staff in its work.

Individuals who have read the *Intercom* online in the past, can go directly to the survey at URL <http://www.ur.psu.edu/intercom/survey/consent.html>. Your participation is appreciated.

Out-of-date forms causing problems

Anyone using the paper version of Penn State's policy manuals and *General Forms Usage Guides* are again being asked to return them to 123 University Support Building 2 on the University Park Campus because they contain obsolete information.

The Office of Systems and Procedures has made these documents available online at URL <http://guru.psu.edu> on the World Wide Web. Since going online, Systems and Procedures has stopped printing the monthly updates for a large portion of the 800 manuals it maintains. No more paper usage guides will be printed.

Anyone not able to access this online site, known as GURU, should contact the Office of Systems and Procedures at form@psu.edu.

Awards

Liberal arts to honor two as Alumni Fellows

Ralph W. Brenner, a nationally known trial attorney, and Kurt M. Landgraf, president and CEO of The DuPont Merck Pharmaceutical Co., have been named Alumni Fellows by the College of the Liberal Arts. The awards will be presented at a ceremony and reception at the University Park Campus on Sept. 12.

Brenner, chairman emeritus of the Philadelphia law firm of Montgomery, McCracken, Walker & Rhoads, is a 1950 graduate in arts and letters of the college. Brenner received an LL.B. degree from Temple University School of Law in 1953. He was elected chairman of the firm in 1988, and served in that capacity for four years. From 1982-88 he served as vice chairman and chairman of the litigation department. A member of the firm since 1953, he has practiced in a variety of areas, including antitrust, securities, environmental law, toxic tort, product liability and complex class action litigation.

Brenner is a fellow of the American College of Trial Lawyers and is a past member of its board of regents; a Fellow of the International Society of Barristers and a Fellow and member of the Board of the International Academy of Trial Lawyers. He also is a member of the International Association of Defense Counsel and the Defense Research Institute and has served on the faculty and as a lecturer at both of these institutions.

Brenner has served as a judge pro tempore for the court of Common Pleas in Philadelphia since 1991. He is a director and past president of the Philadelphia Bar Foundation and has served as pres-



Ralph W. Brenner

Kurt M. Landgraf

ident of the board of directors of Tredegar/East-town School District.

Since 1984, Mr. Brenner has been chairman of the board of St. Christopher's Hospital for Children. He is also a member of the boards of directors of Allegheny Health Education and Research Foundation; Allegheny Health Service Providers Insurance; and the Medical College of Pennsylvania, and is vice chairman of the board of directors of Allegheny Integrated Health Group.

Landgraf, who has held his present position at DuPont-Merck since 1993, is responsible for the research-based pharmaceutical company's annual revenue of \$1.5 billion and 4,000 employees worldwide.

He worked for DuPont Co. from 1980 until 1991, and joined DuPont Merck when it was formed in 1991. At DuPont, Landgraf held a variety of positions of increasing responsibility. Before joining Merck, held positions with The Upjohn Co., The Educational Testing Service and Johnson & Johnson.

He has served as chairman of the board of the United Way of Delaware, board chairman of the Delaware Association for Retarded Citizens, member of the Delaware Business Roundtable, member of the Board of Delaware's Medical Center Foundation and of The Delaware Symphony. He also has served on the board of trustees of Wagner College and the board of advisers of the School of Pharmacy at the University of Maryland at Baltimore. He served as treasurer, vice chairman and chairman of the National Pharmaceutical Council.

Landgraf, who received an M.A. in economics from Penn State in 1969, graduated from Wagner College with a B.S. in economics/business administration. He also received an M.Ed. in administration from Rutgers University in 1974, an M.S. in sociology from Western Michigan University in 1989 and an A.M.P. from the Harvard University Business School in 1992.

The Alumni Fellow award, presented by the Penn State Alumni Association, is administered in cooperation with the University's academic units. The Penn State Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

Penn Staters

R. Thomas Berner, professor of journalism and American studies, gave an invited paper titled "Disaster Reportage: A comparison of Qian Gang's *Great China Earthquake* and John Hersey's *Hiroshima*" to the fifth Congress of the Chinese Comparative Literature Association and International Conference on "Literature and Cultural Dialogue," Northeast Normal University, Changchun, Jilin Province, Peoples Republic of China.

Later in Beijing, he gave an invited talk at the Chinese Academy of Social Sciences titled "The Sustaining Nature of the Ancient Chinese Process of Repography." He also gave an invited talk on literary journalism at the New China News Agency.

Gordon F. De Jong, distinguished professor of sociology and director, graduate program in demography, presented "Social Change, Ideology and Migration Intentions" at the Ninth World Congress of the International Rural Sociology Association in Bucharest, Romania.

For his work in designing and maintaining Zembla, a WWW site devoted to author Vladimir Nabokov on the Penn State Libraries Web server, library assistant Jeff Edmunds was elected an ex-officio member of the Executive Committee of the International Vladimir Nabokov Society, an allied organization of the Modern Language Association.

Hector Flores, professor of plant pathology and biotechnology, presented an invited symposium talk at the annual meeting of the Phytochemical Society of North America. Flores talked on "Underground Blues: Phytochemistry of Plant Storage Organs." He also gave an invited address at the annual meeting of the American Society of Plant Physiologists. His talk was titled "Inside/Outside: Reflections on Roots and Scientists."

Alireza Haghighat, associate professor of nuclear engineering, visited seven nuclear research organizations throughout Europe and gave the following invited talks: "Neutron and Gamma Transport Calculations for Deep-Penetration Problems - Uncertainty, New Developments" and "Parallel Algorithms for Linear Transport Equation-Space Decomposition, Iterative and Differencing Schemes."

Steven Heine gave an invited lecture at Tokyo University on his study of the intersection of philosophy and folklore in the Zen Buddhist "wild fox koan." Research for this project is funded by an NEH fellowship as well as by grants from the Liberal Arts Research and Graduate Studies Office, the Office of International Cooperative Programs, the American Academy of Religion and the Association for Asian Studies.

Austin J. Jaffe, holder of the Philip H. Sieg professorship of business administration, made presentations in Belfast, Northern Ireland, and at the University of Auckland, New Zealand. In Belfast, Jaffe gave the keynote address, "Property Investment in the 21st Century," at the annual conference of the European Real Estate Society. In New Zealand, he served as a visiting professor with University of Auckland's Department of Accounting and Finance and Department of Property.

Urszula Kulakowski, graphic design supervisor for the College of Arts and Architecture communications/public relations group, had her design of the 1995-96 Center for the Performing Arts series icons selected for publication in *PRINT* magazine's 1996 regional design award annual. The achievement was recognized with a certificate of design excellence. The five icons represent the five series that the center offers.

Traci Mathis, buyer in Purchasing Services, was granted the accredited purchasing practitioner (A.P.P.) designation. The A.P.P. demonstrates her professional capabilities through a series of rigorous examinations and a combination of education and relevant work experience.

James L. Rosenberger, professor and head, Department of Statistics, has been named a Fellow of the American Statistical Association. The designation of Fellow is a singular honor in the association and has for more than 75 years signified an individual's outstanding professional contribution and leadership in the field of statistical science.

Jogender Singh, a senior research associate with the High Energy Processing Department, attended NATO's Advanced Research Workshop, in Algarve, Portugal, where he presented a lecture titled "Functional Gradient Ceramic/Metallic Coatings by High-Energy Beams for High-Temperature Applications."

Adam J. Sorkin, professor of English at Penn State Delaware County Campus, presented "Postmodernism and Romanian Poetry: The 'Abnormally Normal,'" at the international conference in Iasi, Romania.

Steven H. Zarit, professor of human development, presented a paper at the Nordic Gerontology Congress in Helsinki, Finland. Authors of the presentation, "A Comparison of Day Care in Sweden and the USA," are Shannon E. Jarrott, Zarit, Lennart Johansson of the Ministry of Health and Welfare, Sweden, and Stig Berg of the Institute of Gerontology, Jönköping, Sweden. Also, Zarit was elected as president of the Section on Clinical Geropsychology of the American Psychological Association.

The ARTS

AT PENN STATE



More is More

In its first exhibition of the academic year, the Zoller Gallery presents "More is More," an exhibition of objects collected by faculty and staff members of the College of Arts and Architecture School of Visual Arts. The exhibition will continue until Thursday, Sept. 17.

MetaStages registration

The School of Theatre Arts will hold registration for drama classes for children at the Paul Robeson Cultural Center on the University Park Campus. MetaStages Theatre Centre, an outreach program, offers classes after school and on Saturday for different age groups from K-12. Weekly sessions begin Sept. 14.

Children receive performance training from professionals in acting, voice, movement, mime and masks as they rehearse and perform plays from various countries and cultures. Classes culminate with an afternoon of final performances. Class size is limited. For more information contact Joann Leonard, MetaStages director, at (814) 867-8390.

Logan Wintergarden Series returns

Music at Noon: The Logan Wintergarden Series returns this fall for a seventh season of music performances in the Reed Union Building Wintergarden at Penn State Erie, The Behrend College.

The series encourages lovers of all types of music to enjoy an informal mid-day respite with performers of international stature. Brown-bag lunches are welcome at the performances, which are free to the public.

New this year is the addition of the Logan Chamber Music Award for

Outstanding Educational Programming, a \$2,000 cash prize that will be given annually to one of the six ensembles performing in the series. The award will honor the ensemble that best targets the presentation and programming needs of the diverse audiences it will perform before at Penn State-Behrend.

The 1996-97 series begins Friday, Sept. 13, with a performance by Cello. This quartet of classically trained women defies the traditional chamber music tradition.

On Oct. 8, the Manhattan Wind Quintet performs; Callopie, along with Peter Schickole of IDO Bach fame, will perform Monday Nov. 11. By playing more than 40 instruments, including krumphorn and the double-reed shawm, Callopie brings a Renaissance revelry to audiences around the world.

The second half of the series brings Aureole, a combination of flute, viola and harp, Tuesday, Feb. 18.

The Rackham String Quartet, which is winning residencies through the National Endowment of the Arts, performs on Monday, March 17.

Hesperus closes the season on Wednesday, April 9.

Music at Noon: The Logan Wintergarden Series is made possible through a grant from the Harry A. Logan Jr. Foundation. For more information about the series, phone Penn State-Behrend at (814) 898-6000.

BRYCE JORDAN CENTER

Ozzy Osbourne Sept. 21

Ozzy Osbourne, with guests Prong, Sepultura and Danzig, will appear at the Bryce Jordan Center at 7 p.m. Saturday, Sept. 21. Tickets are on sale at the ticket center, selected Uni-Marts, Commonwealth Campus ticket outlets or by calling (814) 865-5555 or (800) 863-3336. Tickets are \$23 for advance reserved seating and \$25 for reserved seating the day of the show.

Osbourne was the leader of the heavy metal band Black Sabbath in the 1970s. He then went solo in the early 1980s. The Grammy Award-winning Osbourne has sold more than 21 million albums in the United States.

David Copperfield Oct. 1

World renowned magician David Copperfield will appear for two shows at The Bryce Jordan Center Oct. 1. Tickets for both the 5:30 and 8:30 p.m. shows are on sale now and can be purchased at the Bryce Jordan Ticket Center, selected Uni-Marts, Commonwealth Campus ticket outlets or by calling (814) 865-5555 or (800) 863-3336. Reserved seats are priced at \$39.50, \$29.50 and \$23.50.

After years of successful network specials and extensive world tours, David Copperfield has been seen by more people than any other magician in history, including Houdini.

His tour has broken theatre box office records across North and South America and Asia. Five times he has performed for the President of the United States.

"The Magic of David Copperfield" has won several Emmys and have led Copperfield to be twice named Entertainer of the Year.

Upcoming events

■ Sept. 6: George Strait, with Steve Wariner, 8 p.m.; tickets \$23.50 (all seats reserved).

■ Sept. 7: Penn State Tailgait Party, 11:30 a.m., Penn State vs. Louisville. Kickoff 3:30 p.m.; tickets \$15 for adults; \$10 for children 12 and under. Full luncheon buffet; family entertainment; autograph session of the 1986 National Championship team; live music; door prizes and more.

■ Sept. 14: Penn State Tailgait Party, 8:30 a.m., Penn State vs. Northern Illinois; kickoff 12:30 p.m.; tickets \$15 for adults; \$10 for children 12 and under.

■ Sept. 24: WWF (TV shoot), 7 p.m.; Tickets \$18/\$14/\$10.

■ Oct. 12 Penn State Tailgait Party, four hours before kickoff vs. Purdue; tickets \$15 for adults; \$10 for children 12 and under. Full brunch for luncheon buffet.

■ Oct. 19: Penn State Tailgait Party, four hours before kickoff vs. Iowa.

■ Nov. 2: Penn State Tailgait Party, four hours before kickoff vs. Northwestern.

■ Nov. 23: Penn State Tailgait Party, four hours before kickoff vs. Michigan State.

For more information on any event, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu/>.

UNIVERSITY PARK CALENDAR AUGUST 29 - SEPT. 8

SPECIAL EVENTS

Wednesday, September 4
Gerontology, 12-1 p.m., 101 HHD East. Mark Hayward on "Racial Inequality in Life With and Without Disability."

Friday, September 6
Department of Geography, 3:30 p.m., 206 Walker Building. William Welch on "State College at 100 Years and One Week."

School of Music, 8 p.m., Recital Hall. Jury Recognition Recital.

Saturday, September 7
■ Gallery Talk, 11:30 a.m., Christoffers Lobby. Catherine Clemon on "Ancient to Renaissance Art at the Palmer Museum."

Sunday, September 8
School of Music, 8 p.m., Recital Hall. June Miller, organ.

SEMINARS

Friday, August 30
■ Geography, 4 p.m., 206 Walker Bldg.

C. Gregory Knight on "The World Map of Precipitation Variability."

Tuesday, September 3
Faculty Senate Committee On Research, 4 p.m., Kern Auditorium. Stephen W. Russell on "Developing an Irresistible Idea For Your Grant Application."

CONFERENCES

Thursday, August 29
Short Course on Powder Injections II, The Nitany Lion Inn. Through Aug. 30.

EXHIBITS

Palmer Museum
"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.
"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

Zoller Gallery
"More is More," Visual Arts faculty collections. Through Sept. 17.

■ Reflects an international perspective

Fulbright program grants allow 14 students to study, teach abroad

Fourteen Penn State students are starting the academic year studying abroad on grants administered under the 1996-97 Fulbright program.

Seven awardees recently received baccalaureate degrees from the University, and seven are graduate students in master's or Ph.D. programs. The awardees, their major, field of study or teaching and the country in which they are studying, are:

■ **Stephen Bender**, an international politics graduate from Denver; teaching English as a foreign language in Germany.

■ **Andrew Carlson**, a Ph.D. student in philosophy from Denver; philosophy; Germany.

■ **Joseph Ciardi**, a Ph.D. student in horticulture and genetics from State College; horticulture; Italy.

■ **Amy Davis**, a biology graduate from Greensburg; biology; Australia.

■ **Julie Hornick**, a Ph.D. student in French from State College; teaching English as a foreign language in France.

■ **Sheri Howe**, a German graduate from Ephrata; teaching English as a foreign language in Germany.

■ **Amy Kapp**, a media studies graduate from West Chester; teaching English as a foreign language in Korea.



■ **Sean Kelley**, a Ph.D. student in physiology and nutrition from Painted Post, N.Y.; biology; Sweden.

■ **Franklin Perkins**, a Ph.D. student in philosophy from State College; philosophy; Germany.

■ **Kathryn Peters**, a Ph.D. student in comparative literature from State College; comparative literature; Nicaragua.

■ **Scott Phillips**, a graduate in theatre arts from Collegeville; theatre arts-acting; Germany.

■ **Rachel Rohlf**, a graduate in German from Lexington, Ky.; teaching English as a foreign language in Germany.

■ **Pervaze Sheikh**, a Ph.D. student in biology from State College; ecology; Brazil.

■ **Kurtis Williams**, a graduate in astronomy from New Holland; astronomy; Germany.

Beaver Stadium recycles for United Way

Penn State fans, don't leave your recycling habits at home. Money generated from recycling programs at Beaver Stadium and The Bryce Jordan Center goes to the Centre County United Way, and the University wants your help.

When tailgating begins at the first home game on Saturday, Sept. 7, look for 20 recycling stations throughout Beaver Stadium parking lots for used glass and plastic bottles, and steel and aluminum cans. Leftovers also for separate bins for garbage.

"The Beaver Stadium recycling program, which began last year, was an outstanding success," Tim Curley, Penn State athletic director and the University's 1996 United Way chairman, said. "We expected football fans to recycle about 15 percent of the total waste generated during the season, but fans rallied to the cause and recycled about 33 percent. We want to top that this year."

Centre County United Way received \$11,019 last year from the sale of 34 tons of recyclable material collected by the University's Office of Physical Plant and the Centre County Solid Waste Authority, which led the recycling effort. That amount was then allocated to the Juniata Valley Boy Scout Council and the Hemlock Girl Scout Council in recognition of the hard work the Scouts did managing

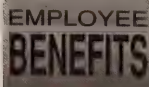


the recycling bins, helping with the sorting and encouraging fans to pitch in for the cause. The Scouts will be out in force again this year.

The success of the Beaver Stadium Recycling Program was also recognized this spring by the Pennsylvania Department of Environmental Protection, which gave it a Commercial Recycling Award in the Unique Ideas Category for leadership in expanding markets for recyclable materials.

"Our stadium recycling program to benefit United Way is a truly cooperative venture and to my knowledge has not been done at football games anywhere else in the country," Al Matyasovsky, foreman of solid waste management, said. "We have all the players involved, from the football fans to the waste collectors and haulers, the waste buyers and the Boy and Girl Scouts, who will ultimately benefit from the United Way funding."

In addition to the Scouts, others helping OPP and the Solid Waste Authority in this effort are Penn State's Department of Intercollegiate Athletics; the Penn State Bookstore; the Centre County United Way; Joseph Krentzman and Sons Inc., which buys the waste to recycle; and the Steel Recycling and the Glass Packaging Institutes.



A column provided by the Office of Human Resources

"Teen Line"

Beginning Sept. 1, Penn State's Employee Assistance Program (EAP) will offer a confidential and free service to address the issues, concerns and needs of teen-agers. Professional counselors will be available 24 hours a day to talk with teen-age children of faculty and staff. Support will be given and questions answered for such topics as drugs, sex, parents, peer pressure, relationships and eating disorders. To speak confidentially with a counselor, teens should call (800) 955-TEEN (8336).

For more information call the Faculty/Staff Health Promotion Office at (814) 865-3085.

Questions and answers

A number of questions arise on a daily basis regarding the employee benefit plans offered to faculty and staff. While some questions are specific to an individual, particular claim or circumstance, many are of a general nature regarding such things as deductibles, co-payments and eligibility.

Future employee benefit columns will present, in a question-and-answer format, the more commonly asked questions about medical plans, retirement, flexible benefits, life insurance and other benefit plan options. As the annual switch enrollment period approaches, faculty and staff are encouraged to review this information.

Carpoolers

Organizing a round-trip carpool from Allentown/Schuylkill Campus to University Park every Thursday during fall semester. Call Diane at (717) 943-2191.

University vanpool has immediate openings for riders/drivers in the Penns Valley area. Stops are Aaronsburg, Milheim, Spring Mills and Centre Hall. Work hours are 8 a.m.-5 p.m. Call Kathy at 865-5403 or send e-mail to kam8@psu.edu.

Carpooler(s) wanted to drive from Philopolis to University Park. Work hours are 7:45 a.m.-4:45 p.m. Call Melissa at 865-3497 or send e-mail to msc4@psu.edu.

Van pool from Phillipsburg has openings to University Park. Hours are 7:30 a.m.-4:30 p.m. Monday through Friday. Contact Sharon at 865-1255 (day) or 342-7296 (evenings).

Harrisburg to hold arts and crafts festival Oct. 5

Free daylong entertainment, arts and crafts vendors and demonstrations, children's events, an array of food and a concert highlight the Penn State Harrisburg Arts and Crafts Fall Festival, to be held from 9 a.m. to 6 p.m. Saturday, Oct. 5.

The first annual event to benefit the community will be held on the Penn State Harrisburg campus on Route 230 just east of the Middletown Square. Proceeds from the festival will go to the Olmsted Recreation Board which sponsors activities for children and youth in Middletown, Royall and Lower Swatara Township. The festival is being organized through volunteer efforts of the college and the surrounding municipalities.

Three event tents will hold attractions for the entire family. The non-stop musical entertainment in the main tent will include appearances by the Clawhammer Banjo Band, Curlique Square Dancers, the Hershey Community Chorus Ensemble, the popular bluegrass and contempo-

rary group Sweetwater Reunion and the Steelton-based Polka Quads.

As an added bonus, the Middletown Area High School marching band will perform its field show at 11 a.m. on the festival grounds.

The children's tent will feature a special all-day safety program sponsored by the John Hancock Insurance Co. which offers free hand and footprints of youngsters and a photo ID safety card.

Throughout the day, an alumni pep band directed by Penn State Harrisburg Professor Dick Ammon will roam the grounds while the Lion Ambassadors offer free paw prints. A special concert attraction, the popular Class Act with Rita, will be highlighted in the Capital Union Building's gymnasium from noon to 2 p.m. For information on the \$5 concert tickets, call 944-9940.

For festival information, call the Penn State Harrisburg Office of Alumni and Special Events at (717) 948-6272.

Appointments

McKeesport Campus names DUS coordinator

Elsie M. Boucek has been appointed Division of Undergraduate Studies coordinator for the Penn State McKeesport Campus. Boucek has been coordinating DUS functions on an interim basis since July 1 while continuing in her current duties as career development and placement counselor, a position she has held since 1978.

Boucek has extensive experience in program development and delivery of seminars in career decision-making, assertiveness for student leaders, resume writing and job search skills and using the Myers-Briggs Type Indicator in career counseling.

Before joining the McKeesport staff she served as a caseworker for the Allegheny County Board of Assistance from 1969 to 1977. She holds a master's degree in student personnel services from Indiana University of Pennsylvania and a bachelor's degree in sociology/anthropology from West Virginia Wesleyan College.



Elsie M. Boucek

Marketing, psychometrics authority a Smeal distinguished professor

One of the country's leading authorities in marketing and psychometrics is now the Mary Jean and Frank P. Smeal Distinguished Chair professor of marketing. Wayne DeSarbo joins Penn State from the University of Michigan's Graduate Business School.

DeSarbo, formerly the Sebastian S. Kresge distinguished chair professor of marketing and statistics at Michigan, is the second faculty member named to a Smeal chair at Penn State within a year, and the third appointed to a chaired position in the college in two years.

The Department of Marketing has three areas of emphasis: consumer marketing, business-to-business marketing and quantitative marketing modeling. The arrival of DeSarbo at the University Park Campus is expected to strengthen the department's efforts in modeling and statistics.

DeSarbo also is expected to enhance the college's ability to attract graduate students. His teaching and research interests focus on the areas of product/service positioning, segmentation, new product/service design, customer satisfac-



Wayne DeSarbo

tion, market structure, service quality and customer lists in direct marketing.

He holds a bachelor of science degree in economics from the University of Pennsylvania, master of arts degrees in industrial sociology and marketing from Penn, a master of arts degree in administrative science from Yale University and a doctoral degree in marketing and statistics from Penn, where he also pursued post-doctoral studies in econometrics and operations research.

Before joining the faculty at the University of Michigan, he was the Harold Simmons chair distinguished professor of marketing and statistics at Southern Methodist University and the Harold and Judy Berkowitz associate professor of marketing at Penn.

He gained industry experience while at the AT&T and Bell Laboratories. The president of Analytika Marketing Science Inc., DeSarbo also has been a consultant to many Fortune 500 firms. He has won the Marketing Science Institute Direct Marketing Research Proposal Competition, and was one of a few scholars in marketing selected by the Royal Swedish Academy for the Nobel Prize Nomination Committee. He has been nominated as a Fellow in the American Statistical Association and elected chair of the Statistics in Marketing Section of the American Statistical Association.

Continuing and Distance Education unit appoints new director

Wesley E. Donahue has been appointed director of Management Development Programs and Services, a unit of Continuing and Distance Education. He succeeds Samuel C. DeWald, who will continue to serve management development, as well as other C&DE units.

Donahue is assistant professor of business administration and holds a joint appointment in The Smeal College of Business Administration and College of Education.

The unit's 13 faculty members are logistically based throughout Pennsylvania and work closely with the Penn State campuses in their areas. Management development faculty members develop and deliver education and training programs primarily to Pennsylvania businesses both large and small.

Donahue brings more than 20 years of progressive manufacturing, technical sales and managerial experience to his role as director. For 15 years (1973-87), he worked with the Fortune 500 company Brockway Inc., now Owens-Brockway. He joined the company as a project engineer, served as an engineering department head, progressed to manager of corporate technical development and later was manager of technology for the company's international division.



Wesley E. Donahue

In 1987, he co-founded and served as executive vice president of Leffler Systems of New Jersey, a manufacturing company specializing in the production of plastic blow-molded products and fabrication of proprietary machinery. In addition, he co-owned a specialty retail store in DuBois, Pa., from 1982 to 1993.

Donahue earned a bachelor of science degree in engineering from Penn State in 1972, an MBA from Clarion University in 1981 and a doctoral degree in workforce education from Penn State in 1996. He is a registered professional engineer.

Associate dean to chair University's International Council

The University's International Council will be chaired by Ronald L. Filippelli, professor of labor studies and associate dean for administration, planning and personnel in the College of the Liberal Arts. Filippelli has represented his college on the council for four years and served as vice chair in 1995-96. The International Council has senior representation from all strategic-planning units of the University and acts in an advisory capacity to the Office of the President and to the University Office of International Programs.

In his new role, Filippelli plans to further the five strategic goals of the council: providing education abroad experiences for 20 percent of each undergraduate graduating class; increasing international activities of faculty and graduate students; internationalizing the curriculum; increasing recognition of international activities within the promotion and tenure process; and enhancing the climate for international students, faculty and staff.

Filippelli, who is responsible for international programs in the College of the Liberal Arts, has been active in promoting international programs across the University. Under his leadership the college has designed and now offers a minor in international studies. A major in international studies, developed by a University-wide committee under the college's leadership, has been approved and its implementation is awaiting consideration by the Board of Trustees.

Filippelli has held visiting faculty positions at Warwick University, England, the University of Melbourne, Australia, and the University of Calabria, Italy. He is the author or editor of four books and has published numerous book chapters and articles. He also has conducted research under grants and contracts from governmental and private agencies.

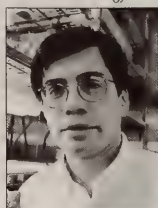


Ronald L. Filippelli

Appointments

New STS director committed to strengthening program

Hector E. Flores, professor of plant pathology who holds a joint appointment in the Biotechnology Institute and serves as an adjunct professor of biology and as a faculty member in the Intercollege Graduate Program in plant pathology, has been named director of the Science, Technology and Society (STS) Program. Flores is committed to not only continuing, but strengthening the STS Program, which is housed in the College of Engineering.



Hector E. Flores

Flores came to Penn State in 1988 from the Louisiana State University, where he was an assistant professor of plant pathology and crop physiology for three years. He received his Ph.D. and M.Phil., both in biology, from Yale University. Flores, who originally hails from Lima, Peru, also holds an M.S. in horticulture from the University of Puerto Rico and a B.S. in biology from the Universidad Nacional Mayor de San Marcos in Lima. In 1987, he was a summer Fellow of the National Health Sciences Foundation in Japan.

Flores has published more than 70 technical papers and edited four books in addition to serving as a manuscript reviewer for 18 refereed journals and a number of federal and private grant proposal committees. He is a member of a number of professional and honor societies and the recipient of several awards.

Flores has sketched out several challenges and initiatives for the STS Program under his directorship. They are:

- to promote scientific literacy in a way that relates to everyday problems, and to encourage multi-dimensional understanding of the nature of scientific and technological enterprise;
- to contribute to the education of responsible citizens by promoting awareness of the social and economic consequences of scientific and technological change at the baccalaureate level and through continuing education and outreach programs;
- to promote the integration of teaching and research in STS; and
- to work toward bridging the gap between the sciences and humanities by encouraging a humanistic perspective on "living things and their uses (or misuses)" among science majors, and conversely by promoting biological literacy among humanities students.

School of Nursing director holds joint appointment

Sarah H. Guelndner has been named director of the School of Nursing in the College of Health and Human Development.

Guelndner, who has 33 years of nursing experience, leaves her post as director of doctoral studies in the College of Nursing at the Medical University of South Carolina, where she led formative work in the development of a collaborative Ph.D. degree in nursing with the University of South Carolina. At Penn State, Guelndner holds a joint appointment in

the College of Health and Human Development and in the College of Medicine. Among her long-term priorities for Penn State's School of Nursing will be the expansion of its funded research efforts and the development of a doctoral program.

Guelndner's research is directed to elderly populations focusing on exercise, environmental enrichment, expression of mood, life satisfaction and immunocompetence.

She is a certified gerontological nurse.

She is a Fellow in the American Academy of Nursing and a member of the Academy's Expert Panel on Long-Term Care. She has served as an officer of Sigma Theta Tau International, and was recently selected as one of that organization's 75th anniversary distinguished lecturers. She is past president of the Society of Rogerian Scholars and of the Mississippi Board of Nursing, and is a member of Sigma Xi and the Gerontological Society of America. She was honored with the 1995 Graduate Teacher Award at the Medical School of South Carolina.

Before becoming the director of doctoral studies at Medical University of South Carolina, Guelndner was director of the University's Center for Nursing Research. She was a member of the faculty of the Medical College of Georgia's School of Nursing from 1982 until 1992. She also has held faculty appointments at the University of Georgia's Gerontology Center in Athens, Abraham Baldwin Agricultural College in Tifton, Valdosta State College, Mississippi State University, the University of Tennessee at Chattanooga, and the University of Tennessee in Memphis.

She received a doctoral degree in nursing from the University of Alabama in Birmingham and a master's degree in nursing from Emory University. She earned her undergraduate degree at the University of Tennessee in Memphis where she was named Outstanding Alumnus in 1989.

Hershey names executive director of University Physicians

John E. Madewell has been named executive director of University Physicians at The Hershey Medical Center.

Madewell, chair of the Department of Radiology, assumed the position in July, following the retirement of **John Waldhausen**.

Madewell received his undergraduate education at Central State College, Edmond, Okla., and his M.D. degree from the University of Oklahoma School of Medicine, Oklahoma City, in 1969.

He served an internship in medicine at Madigan General Hospital, Tacoma, Wash., from 1969-70, and a residency in diagnostic radiology at Walter Reed Army Medical Center, Washington, D.C., from 1970-73. He was chief resident at Walter Reed in 1972-73. Madewell also served a fellowship in radiologic pathology at the Armed Forces Institute of Pathology in 1973-74.

Throughout his career, Madewell has held many administrative academic and clinical appointments, through military service and as a civilian.

Madewell joined the medical center faculty in 1987 as chair and professor of radiology and professor of orthopedic surgery.



Sarah H. Guelndner

He has served as the associate editor of *The Year Book of Diagnostic Radiology* since 1990. Previously, he served on the editorial boards of several professional publications, including *Radiology* and *Radiology*. He holds membership in a number of professional societies and organizations and has published more than 100 journal articles and book chapters.

Palmer Museum of Art welcomes new director

Jan Keene Muhler, former director of the Amon Carter Museum in Fort Worth, Texas, has been named the new director of the Palmer Museum of Art.

Muhler served as the director of the Amon Carter Museum for 15 years. Before that she was the director of the University of Iowa Museum of Art, Iowa City, and has held the posts of associate and assistant curator of 20th Century Painting and Sculpture at the National Museum of American Art, Smithsonian Institution, Washington, D.C.

While director of the Amon Carter Museum, Muhler facilitated an updated strategic plan and the development of a master building plan; expanded the museum's membership program; coordinated negotiations for the purchase of Thomas Eakins' *The Swimming Hole* from the Modern Art Museum of Fort Worth; and managed a fundraising campaign toward that acquisition, raising \$5 million in one year. During her tenure at the Amon Carter she encouraged the addition of selected prints, drawings and watercolors from the 19th and 20th centuries by such artists as Winslow Homer, Edward Hopper, John Sloan and James McNeill Whistler, as well as major paintings by William Merritt Chase, Thomas Cole and Philadelphia artist Morton Livingston Schamberg, among others.

As a member of the Association of Art Museum Directors she has been a trustee of the association, chaired the government and art committee and the professional practices revision committee. With the American Association of Museums she has served as the general co-chair of the annual meeting, a member of the ethics committee and the commission on museums for a new century. She also has been a general operating support grant reviewer for the Institute of Museum Services and worked on the National Endowment for the Arts museum program and challenge grant panels.

Muhler is a member of the visiting committee of the Allen Memorial Art Museum, Oberlin College; the Chancellor's Advisory Council on the Visual Arts, University of North Texas; and has chaired the advisory committee for the North Texas Institute for Educators on the Visual Arts, University of North Texas. In recognition of her work on behalf of art education, she was honored with the 1994 Texas Art Association Friend of Art Education Award.

She holds a master of arts degree in art history from Oberlin College and a bachelor of arts from Albion College, Michigan. Her specialty is American art.



Jan Keene Muhler

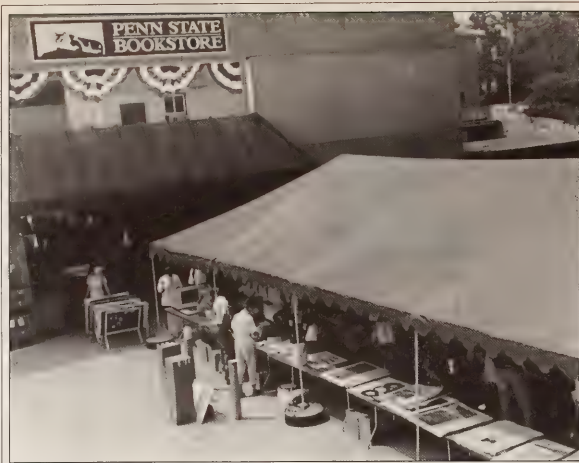
Two-day event to mark institute's 30th anniversary

The Institute for the Arts and Humanistic Studies will celebrate its 30th anniversary on Sept. 21-22 with a two-day event featuring an art exhibit with wine and cheese reception, a banquet with musical and literary entertainment and a birthday celebration with cake followed by a panel discussion on entering the lives of biographical subjects. The activities will conclude with a one-man show, "Willi: An Evening of Wilderness and Spirit," written and performed by playwright John Pielmeier, the author of *Agnes of God*.

The Institute for the Arts and Humanistic Studies is a center for advanced study in the arts and humanities and for interdisciplinary work across those domains. Established in 1966, it is part of Penn State's Intercollege Research Program, which is designed to allow research faculty from various disciplinary backgrounds to move easily across college and departmental lines in response to innovative ideas and proposals.

The Institute has a permanent body of fellows drawn from the most productive and accomplished senior faculty at Penn State. Its goal is to foster the scholarly and creative life of University faculty by providing research grants and fellowships, and to enrich the cultural climate of the University community and Pennsylvania by supporting theatrical and artistic projects, exhibitions, lecture series, conferences, symposia and visits and residencies for distinguished artists and scholars.

For more information or to reserve banquet and theatre tickets, please contact The Institute for Arts and Humanistic Studies, Ithaca Cottage, University Park, Pa. 16802; (814) 865-0494; fax (814) 863-3499.



Ready for the crush

Summer is officially over, by academic standards. Students have returned in full force to all Penn State campuses for the start of fall semester — and retailers are ready. At the University Park Campus, the Penn State Bookstore has temporarily expanded beyond its walls. Visible from this vantage point atop the HUB Parking Deck adjacent to the bookstore are tables set up outside the bookstore entrance to handle the increased business as students pour in to buy textbooks, supplies, Penn State souvenirs and other items. Classes started systemwide on Aug. 21.

Photo: Andrea Hurley

Promotions

Staff

Cheryl Alleman, staff assistant V in College of Agricultural Sciences.

Brett A. Bixler, senior instructional designer, Commonwealth Educational System.

Helen Brady, program aide in Continuing and Distance Education.

Shane Burris, staff assistant V in University Libraries.

Deneen Cutugno, staff assistant V at The Hershey Medical Center.

Cherie Danz, staff assistant V at The Hershey Medical Center.

Janet Decker, manager, Food Services II, in Housing and Food Services.

Elena De Luca, assistant director, alumni relations, in College of the Liberal Arts.

Jennifer Dunn, operations coordinator in Applied Research Laboratory.

Gwen Eckley, staff assistant V in Continuing and Distance Education.

Kristi Harpster, training and support specialist in Division of Development and Alumni Relations.

Kelly Hartford, lead applications programmer/analyst in Computer and Information Systems, Administrative Systems.

Dorcas Holt, staff assistant VI in The Office of the Executive Vice President and Provost.

Karen Jacobs, senior applications programmer/analyst in Computer and Information Systems, Administrative Systems.

Larry Jordan, manager, agricultural research farm(s), in College of Agricultural Sciences.

Suzanne Keller, development assistant in Division of Development and Alumni Relations.

Valerie Kelley, administrative assistant IV in College of Agricultural Sciences.

Bonnie King, staff assistant VII in College of Engineering.

Diane Kolesar, lead applications programmer/analyst in Computer and Information Systems, Administrative Systems.

Pauletta Leathers, editorial assistant in Research and Graduate School.

Elizabeth McKinley, staff assistant VI in the Office of the Vice Provost for Enrollment Management and Administration.

Barbara Meeker, administrative assistant II in University Relations, Office of the President.

Tina Meyers, staff assistant VII in College of Health and Human Development.

Bryan Moody, admissions counselor III in the Office of the Vice Provost for

Enrollment Management and Admissions, Graduate Admissions.

Lorraine Mrackoski, financial aide and veterans' assistant at Penn State Wilkes-Barre Campus.

Kathy Norris, staff assistant VI in University Relations, Office of the President.

George Pappas, network coordinator at Penn State Great Valley Campus.

Sharon Pishak, research support assistant in College of Agricultural Sciences.

Jeffrey Place, staff assistant VI at Penn State DuBois Campus.

Shelley Readell, staff assistant V at Penn State Erie, The Behrend College.

Joneen Richardella, staff assistant V at Penn State Altoona Campus.

Kathleen Schwartz, DUS coordinator in Office of the Vice Provost for Undergraduate Education.

Bradford D. Singler, supervisor, Emergency Medical Services, at The Hershey Medical Center.

Francine Stackhouse, administrative assistant II at Penn State Delaware County Campus.

Donna Sorensen, lead applications programmer/analyst in Computer and Information Systems, Administrative Systems.

Susan Susi, staff assistant V at The Hershey Medical Center.

Belinda Tyson, staff assistant in Continuing and Distance Education.

Rick Wareham, supervisor, Physical Plant Maintenance, at Penn State Altoona Campus.

Alana Werner, staff assistant IV at Penn State York Campus.

Scott A. Wertz, supervisor, Emergency Medical Services at The Hershey Medical Center.

Maria Werley, senior research technologist in College of Agricultural Sciences.

Rita Williams, staff assistant VII in Office of Planning and Analysis.

Karen Wilson, program aide in Continuing and Distance Education.

Technical Service

Ashley Dutrow, maintenance worker, Utility, in Office of Physical Plant.

Leonard Ginnetto, patient care assistant at The Hershey Medical Center.

Robert Hay, delivery driver in College of Agricultural Sciences.

Rosalie Keller, operator B, Centralized Copy Center, in Business Services.

Carl Lingle, group leader, receiving, at The Hershey Medical Center.

Douglas Miller, maintenance worker in Office of Physical Plant.

Partings

Office of Planning and Analysis executive director ends 24-year career

G. Gregory Lozier, executive director of the Office of Planning and Analysis for the past 13 years, has announced his departure after 24 years of service to the University. Lozier will join Coopers and Lybrand as a managing associate in its higher education consulting services, effective Aug. 26.

Although it was a difficult decision for him, Lozier said it was time for him to move on.

"I am pleased to be joining the national leader in higher education consulting," Lozier said. "With my colleagues at Coopers I will work on behalf of many colleges and universities on the pressing issues of American and international higher education."

Lozier joined the University full time as a planning specialist and senior planning analyst in the Office of Budget and Planning in 1972, after working as a research assistant at the University's Center for the Study of Higher Education. He became the associate director of the office in 1979. In 1983, the office was reorganized into the Office of Planning and Analysis, and Lozier became its executive director.

As executive director, he was responsible for advising the Office of the President on the continuing development and implementation of the strategic planning process.

During his tenure, he oversaw design of the strategic planning process linking planning and resource allocations that continues to function as the foundation of the University's strategic planning process. He also advised on the initial framework and

training for instituting the continuous quality improvement program; developed the conceptual design for major institutional reaccreditation self-studies in 1986 and 1995; managed reappointments and relocation of faculty affected by program closures; and chaired and served on various committees responsible for planning, budgeting, capital budgeting, continuous quality improvement and enrollment policy and planning.

As associate director, he supported the University master planning process and designed implementation strategies; directed the five-year reaccreditation periodic review report; and designed and wrote the University's Equal Opportunity Plan.

"Among my many assignments and accomplishments, I am most pleased that the strategic planning process has been embraced by three Penn State administrations and is probably the leading continuously operating strategic planning process among major public research universities," Lozier said.

Before coming to Penn State, Lozier was dean of men at Atlantic Christian College, now Barton College.

Lozier earned his bachelor's degree from Rutgers University, New Brunswick, N.J., in 1966; a master's degree in education from Southern Illinois University, Carbondale, Ill., in 1968; and a doctorate in higher education from Penn State in 1973.

Lozier will relocate to the New York metropolitan area.

the student commons, residence halls and the campus library.

The academic strength of Penn State Hazleton is reflected in record student enrollment; in the 1995-96 academic year, the campus enrollment stood at an all-time high of more than 1,320 students. Many new faculty were added during the past decade in environmental sciences, meteorology, geography and communications.

Aurang also plans to return to his research agenda.

McKeesport DUS coordinator retires

Sarah Haddad, Division of Undergraduate Studies coordinator for the Penn State McKeesport Campus, retired effective July 1 with 28 years of service.

Before joining the McKeesport Campus staff in 1968, she taught chemistry at the Penn State New Kensington Campus for two years. She holds a bachelor of science degree in chemistry from Westminster College and a master of arts degree from the University of Pittsburgh.

She served as assistant to the dean of students at the McKeesport Campus for 16 years before her appointment as DUS coordinator. She was assistant to the dean of women at the University of Wisconsin at Madison from 1965 to 1966.

Haddad is a native of New Kensington.



Sarah Haddad

Head of academic affairs for Penn State Hazleton returns to history teaching

Harold W. Aurand, director of academic affairs at the Penn State Hazleton Campus since 1986, has returned to his teaching duties as a full professor of history at the campus.

Aurang's decade as head of academic affairs at the campus has been a period of strong academic growth and achievement. Through Aurand's efforts, all faculty have computers for teaching innovations and research, and student computer laboratories now dot the campus in classroom buildings,

His reputation for research and publication in the field of Pennsylvania history and the history of the coal industry in northeastern Pennsylvania is international.

A prolific author, his works include several books.

He plans to continue work in academic activities at Penn State Hazleton, and to be active in community work. His community activities include board memberships with the Eckley Miners Village Associates, United Way, United Charities and Leadership Hazleton.

Several retire from service after long careers at University

Dorothy M. Bonson, residence hall utility worker, Housing and Food Services, from Aug. 29, 1977, to July 6.

Doris W. Coldren, instructor of English at the Penn State Fayette Campus, from Sept. 1, 1970, to June 30.

Lillian D. Garbrick, staff assistant IV, University Libraries, from May 10, 1976, to June 30.

Harold A. Groff, assistant professor of engineering at the Penn State Wilkes-Barre Campus, from July 1, 1980, to June 30.

James A. Hale, assistant professor of agriculture at the Penn State Mont Alto Campus, from Sept. 1, 1974, to June 30.

Jon F. Jones, manager, Housing and Food Services II at the Penn State Mont Alto Campus, from Sept. 14, 1981, to June 30.

Beverly J. Keefer, staff assistant VI at the Penn State Berks Campus, retired June 1 after 26 years of service at the University. She has worked at Penn State since June 23, 1969.

Roberta Kevelson, professor of philosophy at the Penn State Berks Campus, from Sept. 1, 1981, to July 1.

James M. Linsky, staff assistant VIII in the Applied Research Laboratory, from July 11, 1977, to June 30.

Miriam E. Mackey, food preparer B, Housing and Food Services, from Sept. 3, 1980, to June 29.

Helen A. Manfull, professor of theatre arts in the College of Arts and Architecture, from Sept. 1, 1973, to June 30.

Betty V. Markel, group leader/snack bar worker in Housing and Food Services, from Aug. 26, 1977, to June 1.

Fred E. McMullin, financial officer IV, Corporate Controller's Office, from Sept. 11, 1978, to June 29.

Richard A. Riddle, administrative assistant II in the College of Education, from Sept. 1, 1978, to June 30.

Sue C. Schnarrs, food service worker, Housing and Food Services, from Aug. 25, 1985, to June 30.

Frank J. Schwab, project manager, Office of Physical Plant, from Aug. 19, 1974, to June 30.

Sibyl L. Severance, associate professor of English at the Penn State Delaware County Campus, from Sept. 1, 1980, to July 1, 1996.

Jean C. Stump, library supervisor III, University Libraries, from Dec. 3, 1973, to June 30.

Thomas E. Tabor, mechanical/electrical engineer III, Office of Physical Plant, from Dec. 7, 1972, to June 30.

James B. Uhl, assistant professor of engineering at the Penn State York Campus, from Sept. 1, 1982, to June 30.

Gardner D. Wagner, foreman, Waste Water Treatment Plant, Office of Physical Plant, from March 6, 1978, to June 30.

News in Brief

Changes in parking fees

As of Aug. 1, it will cost a bit more to park in most areas on the University Park campus. However, the "park and pool" lot, newly relocated to the Research Park, will remain free.

"The rate increase will provide the funding necessary to develop and maintain adequate parking facilities. The soon-to-be-started expansion of lot Red A, by the golf course, and the recent resurfacing of Blue A Curtin, behind Ag Administration, are examples of projects funded by parking registration fees," said Betty J. Roberts, assistant vice president for Business Services. The basic registration fee for faculty and staff parking areas will increase from \$14 to \$15 a month, while the registration fee for reserved lots will increase from \$20 to \$22 a month.

Roberts recently took over responsibility for Parking Services under a reorganization that will merge Parking with Fleet Operations, forming a new Transportation Services unit. The new unit was transferred to the Office of Business Services from its previous home in Safety and Environmental Services.

Fall Blood Drives

The Centre Communities Chapter of the American Red Cross will conduct several blood drives at University Park over the next few weeks. Open drives include:

- Friday, Aug. 30, Penn State Scanticon, noon to 6 p.m.
- Tuesday, Sept. 3, McCoy Natatorium, noon to 5 p.m.
- Thursday, Sept. 5, Kern Graduate Center, 10 a.m.-4 p.m.
- Monday, Sept. 16, Wagner Building, 10 a.m.-4 p.m.
- Tuesday, Sept. 17, HUB Ballroom, 10 a.m.-4 p.m.
- Wednesday, Sept. 18, HUB Ballroom, 10 a.m.-4 p.m.

Two additional drives will take place by appointment. They are:

- Monday, Sept. 9, Ag Administration, 9 a.m.-3 p.m. Call (814) 863-3452 for an appointment.
- Tuesday, Sept. 10, Applied Research Lab, 10 a.m.-4 p.m. Call (814) 865-3031 for an appointment.

Giving blood is safe and easy, and the entire process takes a little more than an hour, including the health check and something to eat. You can safely donate every 56 days; to get eligibility, call the regional Red Cross at (800) GIVE-LIFE. For additional information, call Connie Schroeder, Red Cross campus blood services coordinator, at (814) 237-2713.

Seminar series

The University Libraries is offering a series of seminars during September to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact Doris Herr at (814) 863-0325. Seating is limited so register early. Information on the seminars can be found by typing **HELP WORKSHOP** when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.



Unexpected help

Carl Seid, a freshman from New Hampshire, left, got some help unloading his belongings on move-in day from University President Graham B. Spanier. Seid is living in Pennypacker Hall in East Halls on the University Park campus. He and other residents were joined by Spanier, who spent a weekend living in Pennypacker Hall to better acquaint himself with the students and share their experiences living in a campus dorm.

Photo: Greg Grieco

University Libraries fall hours

University Libraries on the University Park Campus will maintain the following schedules during fall semester Aug. 21 through Dec. 5:

All areas of Pattee Library will be open Monday through Thursday from 7:45 a.m. to midnight; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m.; and Sunday, noon to midnight with the following exceptions:

- Historical Collections and Labor Archives, Interlibrary Loan, Pattee Copy Center, and the Rare Books Room will be open Monday through Friday, 8 a.m. to 5 p.m.
- University Archives/Penn State Room will be open Monday through Friday, 9:30 a.m. to 5 p.m. and on Saturday from 9 a.m. to 1 p.m.
- The Music Listening Room will be open Monday through Thursday from 9 a.m. to 11 p.m.; Friday, 9 a.m. to 6 p.m.; Saturday, noon to 6 p.m.; and Sunday, noon to 11 p.m.
- The Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathematics Library and Physical Sciences Library will be open Monday through Thursday 7:45 a.m. to 11 p.m.; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m.; and Sunday, noon to 11 p.m.
- Pollock Library will be open 24 hours a day, seven days a week.
- On Labor Day, Sept. 2, all University Libraries on the University Park Campus will be open from noon to midnight, with the exception of Pollock Library, which will maintain its 24-hour service.

For more information on hours of library service, call (814) 865-3063; type **HELP HOURS** when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>.

Golf tourney to benefit United Way

The First Penn State University National Way Campaign Golf Tournament will be held Friday, Oct. 4, at the Penn State Blue Golf Course on the University Park Campus.

Entrance fee for the event, a four-person scramble, is \$40 per person and includes green fees, cart, tee prizes, on-course refreshments, catered lunch and team prizes.

The event will begin with lunch at noon. The 18-hole round of golf will begin at 1 p.m.

For an application, visit the Penn State Golf Course Pro Shop; contact your University United Way representative; or call John Dixon at (814) 863-3634 or e-mail him at jwd1@psu.edu.

Women's Club fall reception

The Penn State University Women's Club will welcome newcomers and returning members at its fall reception at 7:30 p.m. Tuesday, Sept. 10, at the Nittany Lion Inn Ballroom.

Women who are Penn State faculty, staff or spouses of faculty or staff members are invited to get acquainted with host and President Maxine Millar, and other members of the club.

Women may register for one or more of approximately 20 interest groups which include sports activities, fun with foods, antique study, book exchanges, bridge, foreign languages, knitting and needle craft, mothers' groups, professional women and special excursions. Two new interest groups have been added this year: downhill skiing and "Investment—Putting Your Money to Work." Service groups include housing referral, reading for the visually handicapped and the volunteer center of Centre County. In addition, the club has established a loan fund for returning adult students at University Park. For more information, call Barbara Dean at (814) 237-7805.

Restoring ecosystems a complex task

By ANDREA ELYSE MESSER
Public Information

Ecologists and land managers may need to take an innovative approach and look beyond fire as a way to restore the ecosystem and encourage endangered species to proliferate in the eastern serpentine barrens.

The eastern serpentine barrens lie along the Pennsylvania and Maryland state lines, east of the Susquehanna River and west of Philadelphia. The terrain is underlain by serpentine bedrock, with a mosaic of forest patches of oak and pitch pine savanna/grassland. The open areas contain seven rare plants and four endangered moths species.

"The barrens are thought to be a fire dependent ecosystem," Karen Arabas, graduate student in geography, said. "However, changing land use practices resulting in fire suppression may be threatening the plant communities there."

Working in the Nature Conservancy's Chrome Serpentine Barrens, Arabas originally wanted to use prescribed burning to create openings in the oak forests that would encourage rare plants to grow and restore the area. Prescribed burning is conducted under controlled conditions using specified levels of relative humidity, air temperature, wind speed and moisture of fine fuels. The fire is contained to a specific area, bounded by firebreaks.

"It seemed reasonable to think that burning would increase plant diversity, encourage serpentine-restricted species and discourage invading species," Arabas said.



Most people believe all fires are bad for forests. Karen Arabas, however, has done research on how some ecosystems are actually fire dependent. She has found that changing land use and fire suppression may threaten some plants.

Photo: Greg Grieco

Historical documents, tree-ring studies and anecdotal evidence indicate that the area burned frequently in the past, maintaining the openings. But since the early 1900s when fire suppression became standard practice, any fires that started have been contained. The last fire in the area was in 1991 with one prior to that in 1963, but these fires were quickly extinguished.

Arabas carried out prescribed burns in both spring and fall. She varied the approach, burning some areas only once, while others were burned during two consecutive years.

"April burning was more intense and severe," Arabas said. "Some of the spring burn actually killed a majority of the trees because it was

hot and traveled into the canopy."

After the spring burn, 84 percent of the red maples, the invasive species, resprouted, while only 34 percent of the oaks did. Also, 30 percent more oaks were killed in the fire than maples.

"There was a huge increase in herbaceous species, but only a few serpentine restricted plants were among them," Arabas said. "However, the area has only been monitored for about two years and not much is known about the dispersal of these rare species."

Fall burns were much less intense, leaving the canopy intact. Those areas with two consecutive years of fall burns did show an increase in serpentine restricted species, but the

increase was modest including only two species, a violet and a sege.

"Large amounts of data were collected from these experimental burns," Arabas said. "We now know that fire's effect on vegetation is very complex and varies greatly with the type of fuels and weather conditions."

"Most important, we have learned that simply restoring the pre-European settlement fire regime may not produce a pre-European settlement ecosystem," Arabas said. "More innovative management techniques, including some combination of logging, prescribed burning and even grazing might better restore the serpentine barrens."

More research is under way to test the effects of these alternative techniques.

Space study yields wet surprise

By BARBARA HALE
Public Information

We'll never be able to get wet quite the same way again.

Results from a Penn State experiment aboard a space shuttle have surprised researchers by disproving a basic, generally accepted principle about how liquids "wet" solids.

The principal holds that a liquid will predictably form regular "beads" on a solid surface, like rain on a highly polished car hood. Evidence from the space shuttle experiment, however, shows that is true only if the surface is horizontal to gravity. The shapes liquids form on non-horizontal surfaces on Earth or on any solid surface in space are irregular, like a teardrop on a baby's cheek.

Randall M. German, the Brush Chair professor in materials and principal investigator on the experiment, said that disproving the principle will have far-reaching effects because it undermines previous knowledge in physics and chemistry and is used extensively in German's own field, materials science, to design new metal alloys.

Wetting wasn't the main focus of the experiment. German and his colleagues had designed their experiment to determine whether a low-gravity environment could help improve liquid sintering, an alloy production technique used to make the fillings in your teeth and other products.

In sintering, several types of powdered metals are mixed, compacted and heated. Some of the metal powder particles melt and surround ones that don't. On Earth, the metal alloys produced this way sometimes have empty spaces where the liquid melt failed to wet the surfaces of some of the unmelted solid particles. The solid particles can also clump together forming grainy areas and the finished product sometimes assumes an unintended shape.

In space, the researchers reasoned, the powdered metals would not settle or clump without gravity's downward pull and any pores would be filled or not-existent.

The experiment, however, turned theory on its head. The samples processed in space had large irregular pores. They also possessed grainy areas and got just as distorted in space as they did on Earth.

German said the experiment showed that wetting isn't the same alloys in space that are very different from the ones on Earth. However, the new insight on the forces governing the formation of alloys gained through the experiment will most likely lead to previously undreamed of applications.

German said his research team are preparing to send another experiment to space in March 1997.

Pinpointing gains stymies many logistics executives

Manufacturing and merchandising executives are pretty sure that careful management of logistics benefits their businesses, but have trouble expressing the results in dollars, a survey of 396 firms shows.

The study by researchers with Penn State, the University of Tennessee and Michigan State also finds that the executives feel logistics management's

greatest contribution to firm revenues comes from increases in product availability to customers. But even this boon can only be measured by a small percentage of firms.

"Although logistics covers a spectrum of day-to-day firm activities like purchasing, transportation, packaging, warehousing, and order processing, its intangible nature makes

gauging effects on revenue difficult even in the best of circumstances," Robert A. Novack, associate professor of business logistics in The Smeal College of Business Administration, said.

In spite of the apparent troubles regarding measurement, "Our other findings suggest that today's leading-edge firms are becoming so 'scientific' in their approaches to logistics

management that the ability to reduce logistics costs, although not exhausted, is quickly diminishing," Novack said.

Novack worked with C. John Langley, distinguished professor of logistics and transportation at the University of Tennessee, and Lloyd M. Rinehart, associate professor of marketing and logistics at Michigan State University.

ATHLETICS

A regular column provided by Intercollegiate Athletics.

Nittany Lion hoops

The men's basketball team will open its 1996-97 regular season with a game against Mount St. Mary's in The Bryce Jordan Center at 8 p.m. Saturday, Nov. 23, following the Nittany Lions' final home football game against Michigan State.

The Nittany Lions also begin their Big Ten season at home against Iowa on Jan. 4 at 8 p.m.

The schedule features six nationally-televised games, including a CBS Jordan Center date with Indiana on Jan. 26. Five other games will be televised by ESPN.

Distinguished service

At the National Association of Academic Advisors for Athletics (NAAAAA) conference, Sandy Meyer was recognized for her outstanding contributions to NAAAAA as convention program coordinator.

Meyer has been an academic counselor in the Academic Support Center for student-athletes since 1987. She works with student-athletes from several sports.

New assistant coach

Dennis Hohenshelt has been named assistant coach of the men's volleyball team.

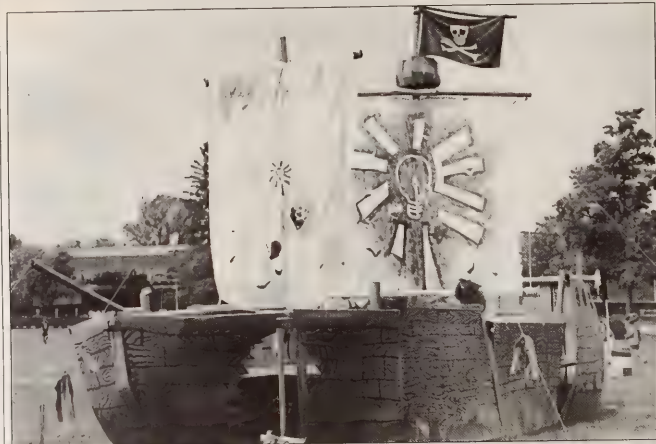
Hohenshelt, a native of Harrisburg, is a 1993 graduate of Juniata College, where he received his B.S. in secondary education/social studies. While at Juniata, he led the Eagles to Eastern Intercollegiate Volleyball Association Division III Championships in 1992 and 1993, and was named team captain and MVP his senior season. He also served two years as assistant coach at Juniata in 1994 and 1995. After being promoted to the position of head coach last season, Hohenshelt led Juniata to an 18-8 record and a second place finish in the EIVA Division III Championship.

Hohenshelt assisted at the Olympic Festival and World University Games in 1994 and 1995. He also aided at the tryouts for the U.S. National and Junior National teams.

For the Record

Jean Morris, staff assistant at the Penn State Mont Alto Campus, was recently recognized by that campus with the Outstanding Service to the Campus Award, while Jody Eike, Housing and Food Service employee at Mont Alto, received the Support Service Excellence Award. The two awards were incorrectly identified in an Aug. 8 story on page 12.

What's going on here?



Event calls attention to program

If you walked past the HUB lawn on the University Park Campus on Aug. 20, you probably saw this pirate ship (above). The battered and tattered ship was erected for the Third Annual Enviro-Engineer Extravaganza. The ship had a mast height of 24 feet and included a crow's nest and Jolly Roger.

Each year, the student organization puts together a unique production for incoming engineering students. The purpose of the event is to introduce students to the hands-on aspects of the engineering world. The event included activities combining teamwork and creative problem solving, ranging from the creation of innovative name tags to a design competition with prizes donated by local businesses. In one activity, students had to find their way through the ferocious ferns, right.

Photos: Andrea Hurley



PENN STATE INTERCOM

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A whole new kind of benefit

Pilot program lets employees help each other during crises

By LISA M. ROSELLINI
Public Information

Thinking back to that cold day in March when her 1981 Buick left the roadway, Bonnie Stauffer looks solemn as she recalls the accident that nearly took her life, but restored her faith in people.

On March 15, Stauffer, a staff assistant in the Office of Physical Plant, wasn't feeling quite right. She asked if she could go home, but the trip turned into a bad dream when the wheels of

her car dropped onto the berm. Her attempts to force her auto back onto the pavement sent the Buick into a tailspin, rolling and crashing into a ditch.

For a brief instant, Stauffer thought she was okay—although her car was totaled. She climbed from the wreckage and felt a numbing sensation in her neck. Later she would learn that she had nearly severed a vertebra and jammed another vertebra over top of its neighboring disk in her spinal column.

"It happened so quickly," she said.

"I had a seat belt on, but I knew something wasn't right. It felt strange."

In a matter of hours, she was life-flighted to The Hershey Medical Center, where surgeons fused a bone from her hip to her cracked vertebra. After nine days in a hospital bed, Stauffer went home—and began to worry.

That's when her co-workers stepped in.

"I didn't know how I was going to pay my bills or how long I would be off," she said. "You wonder if you'll

See "Policy" on page 3

Planning process will reallocate funds

Although funding from the Commonwealth has been tight in recent years, Penn State is continuing to strategically reallocate funds to strengthen its core missions.

The University Planning Council, which was formed in October 1996, has embarked on a comprehensive effort to scrutinize all of Penn State's activities to make them more cost-effective and efficient. At the same time, increasing levels of support will be directed to the core educational activities of the University.

"We have recently completed a three-year University Future Committee process in which approximately \$31 million was reallocated,

See "UPC" on page 3

Eisenhower Chapel marks 40 years of service

For four decades, the Helen Eakin Eisenhower Chapel on the University Park Campus has been a place of respite, a site for worship and a spot that has helped many survive the rigors of college life.

Celebrating its 40th birthday beginning Sept. 9, the chapel still fulfills its critical role of supporting the many campus ministries. Originally the vision of its namesake, the wife of Penn State's 11th president Milton Eisenhower, the chapel is now one of the few remaining among the nation's land-grant universities, according to Kenneth Clarke, acting director of the Center for Ethics and Religious Affairs.

"With representation of Jewish, Catholic, Protestant and evangelical traditions, we are truly ecumenical,"

See "Chapel" on page 2



Getting ready

While Joe Paterno drills his football players and fans check their tailgate supplies, another crew gets Beaver Stadium on the University Park Campus ready for the start of the home football season. The first of six home games starts at 3:30 p.m. Saturday as Penn State plays host to Louisville. For details on how the University is preparing, please see the story on page 9.

Photo: Greg Grieco

Inside



Reminder

President Graham B. Spanier will give his second State of the University Address in Eisenhower Auditorium on the University Park Campus from 4 to 5 p.m. on Friday, Sept. 6. The University community is invited to attend. Those located at campuses are invited to attend. Those located at campuses can watch the address live via satellite. WPSX-TV, Channel 3, will broadcast the full address at 11 p.m. the same day.



Research

Recent finding show that all galaxies may not have formed the same way. For details, please see the story on page 11.

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Chapel

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Clarke said. "With the presence of Muslim students and other faith traditions, we are truly interfaith."

Following the dream of Helen Eisenhower, who died two years before her idea culminated in brick and mortar, the chapel offers a wide range of services and opportunities that help students develop and explore their faith, as well as a philosophy of life based on sound moral and ethical principles.

More than two dozen clergy and staff of campus ministries work out of Eisenhower Chapel. They represent: the Catholic Center, Christian Student Fellowship, Christians in Action, Episcopal Campus Ministry, Hillel Foundation, International Christians, Latter-Day Saints, Navigators, New Life, United Campus Ministry and the University Lutheran Parish. Another 16 ministries located off campus also serve University Park students.

"The chapel keeps us close to students so that we can fulfill spiritual needs," said Father Leo Aron of the Catholic Center. "Supporting this opportunity for a religious experience is a feather in Penn State's cap."

Tuvia Abramson, executive director of Hillel Penn State, the Foundation for Campus Jewish Life, said the chapel is a slice of the community that is "as diverse as they come, and we serve here as a true inter-faith group."

Many come to the chapel for meetings, classes and other events. The Center for Ethics and Religious Affairs annually lists more than 1,000 worship and prayer activities, 10 or more baptisms, more than 50 weddings, nearly 100 music rehearsals and recitals and more than 1,000 educational programs and conferences. In addition, academic units scheduled more than 200 educational events in the past year.



Celebration planned

The Helen Eakin Eisenhower Chapel on the University Park Campus has served students, faculty, staff and the surrounding community for 40 years. Several events have been planned to celebrate.

Photo: Greg Grieco

40th anniversary events planned for chapel

The official 40th anniversary celebration begins with an inter-faith service at 11 a.m. in Eisenhower's All-Faith Chapel on Monday, Sept. 9, for student leaders, administrators, student affairs staff, faculty, campus ministers and ministers from the community. This group is limited to 125 guests because of the limited seating capacity of the chapel. Call the chapel at 865-6548 to see if seats have become available.

Other activities include:

■ 11 a.m. Monday, Sept. 9, in Eisenhower's all-faith chapel: Inter-faith celebration.

■ 7:30 p.m. Monday, Sept. 9, in the Assembly Room of the Hetzel Union Building: Richard Joel, international director, Hillel, the Foundation for Campus Jewish Life, will speak on "New Occasions Teach New Duties: The Role of Religion in Higher Education (Now and Then)"

■ 7:30 p.m. Thursday, Oct. 3, in 101 Kern: Gary Pavela, assistant professor of communications at the University of Maryland, will speak on "Legal Implications for Religion on Campus: Post-Rosenberger."

■ 7:30 p.m. Wednesday, Nov. 6, in 101 Kern: Conrad Cherry, distinguished professor of religious studies at Indiana University-Purdue University at Indianapolis, will discuss "The Role of Religion in the Global Village."

Awards

Assistant professor garners fine arts grant

Daniel Nadenicek, assistant professor of landscape architecture and director of the Center for Studies in Landscape History, has been awarded a grant from the Graham Foundation for Advanced Studies in the Fine Arts. The grant supported a June conference, "OnSite/InSight: Nature, Humanity and Time: A Symposium on Landscape History."

The mission of the center extends beyond landscape architectural history to the broader field of landscape history. Over the next several years, the center will assist landscape historians in their research, facilitate interdisciplinary sharing, help communities coordinate historical projects in the landscape, publish conference proceedings and other documents of importance to the landscape history field and organize symposia and other public events.

Nadenicek was awarded the 1996 National Council of Educators Award of Recognition for Excellence in Teaching Research and Public Service.

Population Research Institute awarded core support grant

The Population Research Institute, directed by Daniel T. Lichter, professor of sociology, has been awarded a five-year, \$2.3 million core support grant from the National Institute of Child Health and Human Development. Population Research Center funding from the institute is limited to nine leading centers of population research in the United States. Other funded centers are located at Princeton University, University of Chicago, University of Michigan, University of Texas, University of Wisconsin, University of North Carolina, University of Pennsylvania and Brown University.

The Population Research Institute is an interdisciplinary center that provides research support services and facilities to more than 40 faculty research associates and 50 pre- and post-doctoral trainees. Faculty and students are represented from six different colleges and 11 departments. The center grant supports administrative services, computing facilities and programming, statistical

consulting and information access and retrieval. The new grant also provides technical assistance for initiatives in Geographical Information Systems and supports program development in biodemographic research on biobehavioral genetics, endocrinology and health.

The institute also administers about 30 externally funded research contracts and grants from the National Science Foundation, National Institutes on Aging, the Mellon Foundation and the Hewlett Foundation, among others. Researchers in the Population Research Institute are identifying the social, economic and environmental factors associated with high fertility in developing countries in Africa, Asia and Latin America. Penn State demographers also are examining population aging and intergenerational relations, infertility and other reproductive impairments and health and longevity in the American population.

The Population Research Institute is part of Penn State's Intercollege Research Programs.

Policy

continued from page 1

still have a job. I was only working full time for six months before the accident and I only had a minimum number of vacation days. I don't even think I had a week saved.

"You're supposed to be trying to recover, but you have a lot of stress... a lot of worries like this that can really set you back."

But Stauffer didn't need to worry long. A pilot program that would allow her colleagues to donate vacation days was being tested in the Office of Physical Plant. Hearing of Stauffer's accident, her co-workers stepped forward and donated vacation days for her use. That action allowed Stauffer to get back on her feet and return to work full time.

"I don't know how I can explain it to anybody," she said, her eyes filling with tears. "It still chokes me up when I talk about how I know in my heart that their support and selflessness helped me to heal faster."

Stauffer was the first person to use what has now evolved into a trial program for the entire University. For the next year, employees can anonymously donate some of their accumulated vacation time to other workers in their unit who have experienced a personal catastrophe, but have exhausted their own paid time off.

"It is an opportunity to help a co-worker, someone who really needs a hand at a very difficult time in their life," Billie Willis, assistant vice president for Human Resources, said. "The program can be used by people, like Bonnie, who have experienced an accident, or for a serious illness or an illness in the family that would require someone to stay away from work for an extended period of time. This program really shows the human side of the University, which often isn't seen."

UPC

continued from page 1

and now we have undertaken a continuing strategy to reallocate approximately \$10 million to \$11 million over the current and the next two fiscal years," David Wormley, dean of the College of Engineering and a member of the Council, said.

The council plans to develop a University-wide strategic plan and make recommendations to the president and provost by May 1997. Five-year plans will be developed by each academic and administrative unit of the University by January and will be followed up by hearings with each academic dean and unit budget director, to help develop the plan.

"It's an aggressive schedule, but one which we believe can be met and can lead to the formulation of a plan that will help strengthen Penn State as we move into the next millennium," Wormley said.

In the first two years of the plan, support units have been asked to identify 1.5 percent and academic units have been asked to identify 1.2 percent of base budgets for reallocation to the University. In this 1.2 percent recycling, academic units may receive a three-tenths of 1 percent credit or return of funds with the development of an effective plan to re-deploy resources from administrative to educational activities.

"It is in the classrooms with the goal to place more faculty in the classrooms and laboratories," Wormley said, "and to improve our service to our students and the citizens of the Commonwealth while reducing the overall administrative burden in the University."

John A. Brighton, executive vice president and provost and chair of the council, said "We understand that with new recycling effort funds are increasingly difficult to identify in each college and support unit."

"All academic units are asked to recommend high-priority areas for enhancement," Brighton said.

Willits said the idea for the program is not new — a number of corporations already have vacation donation policies in place. But an e-mail message to the president is what set the wheels in motion.

"I guess it was a pretty bold move to suggest a policy change, but I really wanted to see something like this accomplished," Donna Nicely, author of the e-mail, said. "My sister told me they have a similar program at Westinghouse and I thought, 'Why not here?'"

So she asked **Graham Spanier** that very same question.

Nicely, coordinator of research and administrative services in the College of Education, was concerned about a co-worker who was struggling with the problem of finding needed home care for her husband, who was suffering with Lou Gehrig's disease.

"I don't know if I caused this program to be put in place, but it makes me feel great to know that I might have helped someone," Nicely said. "And, you never know when you might be the one who needs it."

Willits said the program will run until July 1997, when Human Resources will assess the program's value to the University community and the feasibility of continuing it.

"This program has to be a comfort to anyone who needs to use it," the still-recovering Stauffer said. "It really gives you renewed faith in people."



Help was there

Bonnie Stauffer needed more paid time off than she had available to deal with a personal medical crisis. Thanks to generous co-workers who donated their unused vacation time to her, she got it.

Photo: Andrea Hurley

Just when you start thinking people really don't care anymore or are just out for themselves, you have something like this happen.

"I just really wish I could thank everyone personally and convey how much it meant to me that people really do care. This is one thing that gets me going every day," she said.

For full details about the program, contact the Human Resources representative or director of Business Services in your work unit.

Study groups guide planning efforts

As part of the University Planning Council's activities in recent months, 10 study groups have been formed to help guide future planning efforts involving some key areas that the council identified during the spring semester.

These study groups will deliver their reports to the council during September, October and November. Each group has a convener and, in total, scores of University faculty, staff, students and administrators are serving on the study groups.

The 10 study groups, and their conveners are:

- Academic enhancement, **Greg Goffroy**
- Academic organization, **Eva Pell**
- Differential tuition, **Gary Schultz**
- Cost centers, **John Brighton**
- Continuing and Distance Education, **David Wormley**
- Undergraduate support services, **Ron Filippelli**
- Graduate support services, **Eric Barron**

■ Research support services, **Peter Luckie**

■ Non-academic support services, **George McMurtry**

■ Multicultural goals, **Terri Brooks**

"The 10 study groups have been initiated to assess the efficiency and effectiveness of critical organizations," according to **John A. Brighton**, executive vice president and provost and chair of the council. Brighton said "The study groups have been asked to identify ways to improve our organizational support for core teaching, research and services activities."

In the case of differential tuitions, Brighton said that study group is reviewing the policies of peer institutions and evaluating possible new approaches for Penn State.

Background stories on the formation of the UPC last October and a list of its current members can be found on the World Wide Web at <http://ur-psu.edu/PresAdmin/PresAdmin.html>.

University community that provides leadership for constructive participation in a diverse, multicultural world.

During the current fiscal year, which began July 1, each unit was asked to identify 1 percent of general support funds for reallocation to the University. These, along with other funds, are now being used for three major areas of support.

The first is to support colleges with increased student demand. The second area of support is for essential educational infrastructure that is important for all students, such as the libraries and computational classroom and laboratory infrastructure.

The third key area to receive support in the current year is a major teaching and research initiative in the life sciences that was recommended by the Future Committee.

LECTURES

Louganis dives into Behrend lecture series

The award-winning Speaker Series at Penn State Erie, The Behrend College, returns this fall to examine the challenges of the millennium in "Approaching 2000: Uniting Science, Technology and Humanity."

Greg Louganis, the most decorated Olympic diver, will be the first speaker in the series.

Louganis' lecture, "Breaking the Surface," will begin at 7:30 p.m. Monday, Sept. 16, in the Reed Union Building Commons. It is free to the public.

Louganis began diving at the age of 9; at 16 he won his first Olympic medal, a silver on the platform. At 24 he became the first man in 56 years to win both Olympic platform and springboard competitions. Four years later, in 1988, he repeated double gold medals in the same events despite a near-disastrous head injury on the platform. He remains the only male diver ever to win two gold medals in consecutive Olympics.

In his recent autobiography, *Breaking the Surface*, Louganis revealed that he was homosexual, HIV-positive, that he had been the victim of domestic abuse and that in spite of his many diving accomplishments and honors he suffered debilitating feelings of low self-esteem and worthlessness.

Other lectures in the series are:

■ **Bradley G. Richardson**, author of the best-selling book *Jobsmarts for Twentiethcentury*, will be the second series speaker. His lecture of the same title begins at noon Wednesday, Oct. 30, in the Reed Union Building Commons.

■ **Wired** magazine founder and executive managing editor **John Battelle** will discuss the importance of being "Wired for the 90s" at 7:30 p.m. Wednesday, Nov. 13, in the Reed Union Building Commons.

Battelle serves as a director of new business for the magazine's parent company, which includes HotWired Online Service.

■ **A Thursday, Nov. 21, appearance by Brother Bob Artman** titled

"Restoring Dignity" will begin at 7:30 p.m. in the Reed Union Building Lecture Hall.

Artman, coordinator of Our Daily Bread, a Maryland soup kitchen that has served more than 2 million meals, will offer insights into the plight of the homeless gleaned from 16 years of work in Boston, New York and Baltimore.

■ "Dumping in Dixie: Race, Class and Environmental Quality" will be the topic of activist **Robert Bullard's** Monday, Jan. 20, lecture. The address, which begins at 7:30 p.m. in the Reed Union Building Commons, will be part of the college's Martin Luther King Jr. birthday celebration.

■ **The Rev. Jesse Jackson**, one of America's foremost political figures, will speak at Penn State-Behrend in February on a date to be announced. The topic of Jackson's address will be "Keep Hope Alive."

■ **Lynne V. Cheney**, an outspoken advocate for improving education in America, is an influential voice in the ongoing debate over our country's culture and values. Her lecture, "Telling the Truth: Why Our Culture and Country Have Stopped Making Sense," will begin at 7:30 p.m. Thursday, March 6, in the Reed Union Building Commons.

Cheney is the former chair of the National Endowment for the Humanities.

■ Capping the series will be the debate "Creation vs. Evolution: Challenging Darwin," to be held at 7:30 p.m. Monday, April 14, in the Reed Union Building Commons. Debaters **Michael J. Behe** and **Niles Eldredge** are both evolutionary scientists, but disagree on the role divine intervention may have played in the formation of human life.

An interpreter for the hearing impaired will be visible at each lecture and assistive listening devices are available upon advance request to the Office of Student Activities, (814) 898-6171.

pus, will also focus on creating and sustaining the necessary climate and positive, as well as negative, effects in achieving multiculturalism.

The talk is free to the public, but registration is required. To register for this event, call the center at (717) 772-3590.

Lion-Hearted Lectures to kick off Sept. 20

The 15th annual Lion-Hearted Lecture Series sponsored by the Penn State Cardiovascular Center of The Milton S. Eshelman Medical Center will be held on Friday, Sept. 20.

The series, titled "The Management of the Patient with Congestive Heart Failure," is designed for cardiologists, internal medicine specialists, family and general practitioners, nurses, physician assistants, pharmacists, exercise physiologists and other allied-health professionals.

The speakers and their topics are:

■ **Dr. Robert Zelis**, professor of medicine at Hershey, on "Pathophysiology and Initial Evaluation of Congestive Heart Failure;"

■ **Dr. Spencer H. Kubo**, associate professor of medicine and medical director of the Heart Failure/Heart Transplantation Program of the University of Minnesota, on "Medical Management of Chronic Ambulatory Congestive Heart Failure: Role of Diuretics, Vasodilators, Beta Blockers and Inotropic Agents—Which Drugs Prolong Survival?;"

■ **Dr. James A. Reiffel**, clinical professor of medicine, Columbia-Presbyterian Medical Center, on "Are



Antiarrhythmic Drugs Useful in Prolonging Survival in Patients with Left Ventricular Dysfunction?;"

■ **Dr. Blase Carabelle**, professor of medicine, and **Charles Ezra Daniel**, professor of cardiology, Medical University of South Carolina, on "Patients with Ischemic Cardiomyopathy: Who Will Benefit from Revascularization?;" and "Timing of Heart Valve Replacement in Patients with Valvular Heart Disease;"

■ **Dr. Gerald V. Naccarelli**, chief of cardiology and director of the Penn State Cardiovascular Center at Hershey, on "Management of Atrial Fibrillation in the Congestive Heart Failure Patient;"

■ **Dr. John P. Boehmer**, assistant professor of medicine at Hershey, on "In-Hospital Management of Refractory Congestive Heart Failure;" and

■ **Dr. Walter E. Pae Jr.**, professor of surgery at Hershey, on "Chronic Mechanical Assist Devices: Their Current and Future Role in Managing Congestive Heart Failure."

The fee for the series is \$60 per person and includes the cost of instruction, handout materials, refreshments and lunch.

Enrollment is limited and registration should be received no later than Sept. 6. To register, call the continuing education office at (717) 531-6483.

Australian labor relations topic of Sept. 11 seminar

Anthony Cooke, secretary of the Trades and Labour Council of Western Australia, will present a seminar titled "Strife or Settlement? Trends in Australian Industrial Relations" at 4 p.m. Wednesday, Sept. 11, in 124 Sparks Building. The seminar, which is open to the public, is jointly sponsored by the Australia-New Zealand Studies Center and the Department of Labor Studies and Industrial Relations.

An official in the Western Australian Trades and Labour Council for many years, Cooke became its principal officer in 1995. He holds an M.A. in social policy from York University

in Britain, and an MBA from Curtin University in Perth. He has been instrumental in extending the Australian labor movement's linkages with counterparts overseas, notably in post-apartheid South Africa, and is a keen protagonist of worker human/social rights in Australia and internationally.

He is currently in America under the auspices of the U.S. International Visitor Program and the Free Trade Union Institute.

Anyone who would like more information should contact **Patricia Corbett** by phone at (814) 863-1603 or e-mail at pac9@psu.edu.

more systematic. The old rules will be valid alongside the new ones until April 1, 1998, after which only the new spellings will be acceptable in German schools.

Eichloff will also talk about the implications of the reform and its principles, as well as provide examples of the changes.

Talk outlines steps for new thinking

"Creating an Organizational Climate for Multiculturalism," a talk that will outline the steps needed to achieve changes in attitudes and behaviors, will be presented from noon to 1 p.m. Thursday, Sept. 19, at the Penn State Harrisburg Eastgate Center.

The lecture, to be given by **John G. Bruhn**, provost and dean of the cam-

Obituaries

Soil conditions engineer dies after short illness

Louis Berger, 82, an engineer whose expertise in soil conditions enabled him to build highways and even airport runways effectively on soft ground, died Aug. 21 in New York following a short illness.

Berger headed the New Jersey-based Berger Group, an engineering and environmental planning company he founded in 1953. The group now employs nearly 3,000 people in more than 70 countries.

Berger graduated from Tufts College in 1936, with a degree in civil engineering. He went on to receive a master's in soils and geology from the Massachusetts Institute of Technology. In 1940, he took his first job, supervising construction of two large dams in southern Illinois. He joined the U.S. Coast Guard in 1942, first designing waterfront facilities along the Mississippi and later commanding a Coast Guard base in Greenland.

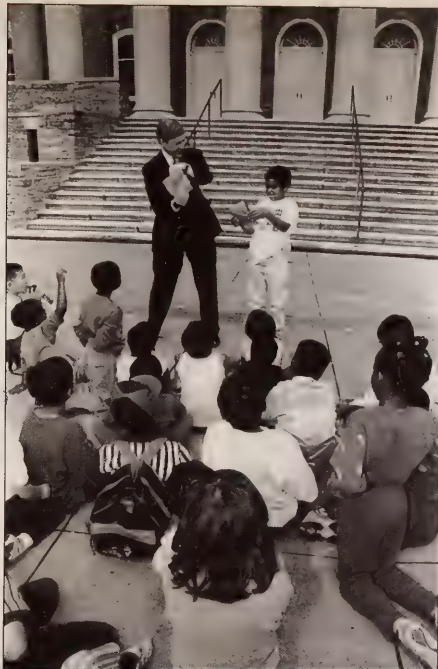
After the war, he went on to earn his doctorate in soil mechanics from Northwestern University and then joined the engineering faculty at Penn State.

In 1952, Berger gave up his professorship and opened his first consulting office, in Harrisburg, Pa., a firm which helped design part of the Pennsylvania Turnpike, the first turnpike in the United States. In 1953 he opened a second office, which eventually grew into the Berger Group.

Other deaths

Virginia E. Eckert, tray assembler at The Hershey Medical Center from Oct. 19, 1970 until her retirement Nov. 1, 1980; died Aug. 2 at the age of 81.

Corliss R. Kinney, professor of fuel technology, from July 1, 1943, until his retirement Dec. 23, 1960; died July 2. He was 95.



Presidential prestidigitator

President Graham B. Spanier shows some of his magical skills to children of international students. The children visited Spanier at Old Main on the University Park Campus during the first summer camp run for children living in University housing. The children also visited the Materials Research Laboratory, Bryce Jordan Center, Frost Museum and Palmer Museum during the eight-week-long program.

Photo: Greg Grieco

Faculty/Staff Alerts

Award will recognize faculty

A new award to recognize faculty who have excelled in all three areas of their professional lives as measured by their achievements in the integration of teaching, service and research or creative accomplishments has been created. The award was proposed by the 1995-96 Academic Leadership Program fellows of the Committee on Institutional Cooperation, the academic consortium of the Big Ten universities and the University of Chicago.

Known as the President's Award for Excellence in Academic Integration, this newly established honor carries with it a prize of \$3,000 and will be awarded in the spring of 1997. For more information, contact the Office of the Vice Provost at (814) 863-7494.

Do-it-yourself searching service

Beginning Monday, Sept. 9, through Wednesday, Dec. 4, the University Libraries Do-it-Yourself Searching Service will be available from 6 to 9 p.m. Monday and Wednesday evenings in 105 East Pattee Library.

This service gives students, faculty and staff a chance

to do their own computer search using a choice of more than 150 dial-up databases in a variety of subjects. Self-study guides provide users with the basic skills needed to do searches, but for best results users are advised to consult a librarian in their subject area. The search process is similar to CD-ROM searching but more databases are available, and it provides more years of coverage. For Penn State students, faculty and staff, many searches are provided free of charge.

For more information, contact the Pattee Information Desk at (814) 865-2112 or the search service coordinator at (814) 865-3705.

Penn State Facts available

The Office of University Relations has available the 1996 edition of *Penn State Facts*, a pocket-sized pamphlet containing brief statistical information on such topics as enrollment, academic achievements, research and graduate studies, diversity, budget and campus locations. The pamphlet is free and may be obtained by calling (814) 863-4512 or through e-mail request at als@psu.edu.

Penn Staters

Dr. Julien Biebuyck, Eric A. Walker professor and chair of anesthesia and associate dean for academic affairs at The Hershey Medical Center, was awarded an honorary fellowship by the Royal College of Anesthetists in London, England. Biebuyck also gave the commencement address to the British diplomats of the Royal College who had been awarded their fellowships by examination.

Anthony Cutler, professor of art history, delivered a paper, "The Memory Palace of Constantine Porphyrogenitus," at the XXIX International Congress of the History of Art in Amsterdam, The Netherlands.

Rangachar Kasturi, professor of computer science in the College of Engineering, has been named a Fellow by the International Association for Pattern Recognition, an affiliate member of the International Federation for Information Processing.

Robert E. Newnham, Alcoa professor of solid state science and associate director of the Intercollege Materials Research Laboratory, has been selected as the 1996 MRS Turnbull lecturer by the Materials Research Society. The Turnbull lectureship recognizes the career of a materials scientist who has made outstanding contributions to understanding materials phenomena and properties through teaching and research.

Newnham was also a keynote speaker at the XVII Congress and General Assembly of the International Union of Crystallography. Newnham spoke to the convention about molecular mechanisms in electronic sensors and actuators.

Ranny Singiser, coordinator of field placements in the Penn State Harrisburg Division of Behavioral Sciences and Education, has been appointed to the Phi Delta Kappa board of directors. Phi Delta Kappa is a chapter-based organization of professional educators ranging from early childhood teachers and administrators to college professors and deans. The organization is committed to research and education leadership.

Elizabeth J. Susman, Shibley professor of biobehavioral health, presented an invited paper at the NATO Advanced Study Institute on the Biological Basis of Violence in Rhodes, Greece. The paper was titled "Hormones-Context Interactions and Antisocial Behavior in Youth." It was co-authored by **Angelo Ponirakis**, graduate student in the Department of Biobehavioral Health.

The ARTS

AT PENN STATE



On stage

The musical group CELLO will appear at noon Friday, Sept. 13, in the Wintergarden of the Reed Union Building at Penn State Erie, The Behrend College.

Students to give jury recognition recital

Nine undergraduate students who study with faculty members in the College of Arts and Architecture School of Music will perform in a jury recognition recital at 8 p.m. Friday, Sept. 6, in the School of Music Recital Hall on the University Park Campus.

The performers are students of Susan Boardman, Kim Cook, John Daniel, Marylene Dosse, Timothy Hartzel, Richard Kennedy, Steven Smith and Norman Spivey, all members of the School of Music faculty.

The recital is free to the public.

Ellis to present recital

On Sunday, Sept. 8, at 3 p.m., Evelyn Ellis will present her annual clarinet recital along with Jill Olson, piano, in the School of Music Recital Hall on the University Park Campus.

Ellis and Olson are entering their 14th year of musical collaborations. Ellis is a graduate of the Penn State School of Music. She is the coordinator of minority programs for the College of Arts and Architecture and instructor in the School of Music. Olson is a soloist, piano teacher and chamber music per-



Evelyn Ellis

former in the Centre Region and a graduate of the University of Wisconsin.

The recital is free to the public.

Organist recital set

Jane Miller, associate professor of music, will present a free organ recital at 8 p.m. Monday, Sept. 9, in the School of Music Recital Hall on the University Park Campus.

Miller teaches organ, harpsichord, a figured bass course and keyboard literature course. She is district educational coordinator for western Pennsylvania in Region III of the American Guild of Organists and a member of the Association of Lutheran Church Musicians.

International festival at Penn College

International food, entertainment and displays highlight the International Folk Festival at the Pennsylvania College of Technology on Tuesday, Sept. 10. Activities will take place in and around the college's Alvin C. Bush Campus Center from noon to 10 p.m. The event is designed to celebrate cultural diversity. All entertainment, events, demonstrations and displays are free to the public.

Entertainment on tap includes a bagpipe and Irish step dance performance, an Indian dance and fashion parade, Guyanese afrodance movements and choral singing by the

Williamsport Civic Chorus and Gesang Verein Harmonia German Club Men's and Women's Chorus. Audience participation sessions will feature tai chi and shotokan karate demonstrations. International food and wares also will be on sale throughout the day.

For more on the International Folk Festival, contact the College Activities Office at Penn College, (717) 327-4763.

Bassoon ensemble to open Bach's Lunch series

The Penn State Bassoon Ensemble opens the 1996-97 Bach's Lunch concert series at 12:10 p.m. Thursday, Sept. 12, with a performance in the Helen Eskin Eisenhower Chapel at the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

For the performance, the Bassoon Ensemble will present works for four and eight bassoons.

The is free to the public. Audience members may bring a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

CELLO to perform Sept. 13 at Behrend

Music at Noon: The Logan Wintergarden Series debuts Friday, Sept. 13, at Penn State Erie, The Behrend College, with an appearance by CELLO, music's only full-time touring cello quartet.

The performance begins at noon in the Wintergarden of the Reed Union Building. It is free to the public; audience members are encouraged to bring a brown-bag lunch to enjoy.

CELLO leads a growing list of ensembles that are pioneering the next wave of classical music. By combining an eclectic mix of classical, jazz and pop works with performers who are sometimes quirky — and always unpredictable — CELLO makes chamber music that appeals to a broad spectrum of listeners.

CELLO's four women cellists compensate for a limited all-cello repertoire by creating and commissioning their own arrangements.

Tori Amos in Williamsport

Singer/songwriter Tori Amos will appear in concert at the Community Arts Center in Williamsport, part of the Pennsylvania College of Technology, on Saturday, Oct. 5. The show will begin at 7:30 p.m.

Amos, who began playing the piano at the age of 2, was composing musical scores at the age of 4. She emerged into the public glare in 1992 and since that time, has created emotionally challenging music. Her album "Under the Pink" debuted at No. 1 on the UK charts, selling more than 2 million copies. Her latest album "Boys for Pele," contains 18 self-penned songs.

Tickets for the concert are \$30. To order tickets or for more information, call the center at (717) 326-2424.



BYRCE JORDAN CENTER

NBA coming

The Atlanta Hawks are taking on the Los Angeles Clippers in a pre-season NBA game at the Bryce Jordan Center on Sunday, Oct. 13, at 7 p.m.

Tickets are \$19.50, \$15.50 and \$9.50 for reserved seating. For tickets, contact the Bryce Jordan Ticket Center at (814) 865-5555 or 800-863-3336; or selected Uni-Mart's and Penn State campus outlets in Erie, Altoona, Hazleton and Reading.

Upcoming events

Other upcoming events include:

Sept. 6:

George Strail, with Steve Wariner, 8 p.m.; tickets \$23.50 (all seats reserved).

Sept. 7:

Penn State Tailgreet Party, 11:30 a.m.; tickets \$15 for adults; \$10 for children 12 and under.

Sept. 14:

Penn State Tailgreet Party, 8:30 a.m.; tickets \$15 for adults; \$10 for children 12 and under.

Sept. 21:

Ozzy Osbourne, with guests DANZIG, Sepultura and Prong, 7 p.m.; tickets \$23 in advance, \$25 day of show (all seats reserved).

Sept. 24:

WWF (TV shoot), 7 p.m.; Tickets \$18/\$14/\$10.

Oct. 1:

David Copperfield, 5:30 and 8:30 p.m.; tickets \$39.50/\$29.50/\$23.50 (all seats reserved).

Oct. 12:

Penn State Tailgreet Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

Oct. 19:

Penn State Tailgreet Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

Nov. 2:

Penn State Tailgreet Party, four hours before kickoff; \$10 for children 12 and under.

Nov. 23:

Penn State Tailgreet Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at the Bryce Jordan Center, or for more information on any event listed here, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu/>.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, September 6

Department of Geography, 3:30 p.m., 206 Walker Building.
William Weich on "State College at 100 Years and One Week."

Friday, September 6

School of Music, 8 p.m., Recital Hall. Jury Recognition Recital.

Commission on Lesbian, Gay and Bisexual Equity, 6 to 7:30 p.m., 110 North Henderson Building. Annual Reception.

Saturday, September 7

■ Gallery Talk, 11:30 a.m., Christoffers Lobby. Catherine Ciferri on "Ancient to Renaissance Art at the Palmer Museum."

Sunday, September 8

School of Music, 3 p.m., Recital Hall. Evelyn Ellis, clarinet

Monday, September 9

School of Music, 8 p.m., Recital Hall. June Miller, organ.

Thursday, September 12

The Penn State Christian Faculty/Staff Fellowship, noon-1 p.m., lunch Fellowship Meeting

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch concert

Gallery Talk, 2 p.m., Christoffers Lobby. Glenn Willmson on "Contemporary Art From the Pincus Collection."

Friday, September 13

■ Department of Geography, 3:30 p.m., 206 Walker Building. Peter Gould on "The Great Lisbon Earthquake."

Gallery Talk, 2 p.m., Christoffers Lobby. Jennifer Streib on "Highlights of the Palmer Museum."

Saturday, September 14

Gallery Talk, 11 a.m., Christoffers Lobby. Sarah Andrews on "Portraiture in American Art."

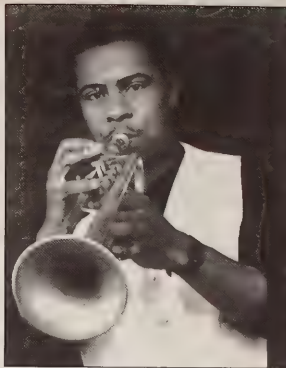
SEMINARS

Thursday, September 5

Gravity Center, 11:30 a.m., 339 Davey Laboratory. Lee Smolin on "Emergence of a 3D String Theory from 4D Quantum General Relativity."

Monday, September 9

The Center for Ethics and Religious Affairs and Penn State Hillel, 7:30 p.m., Assembly Room, Hertzell Union Building. Richard M. Joel on "New Occasions Teach New Duties: The Role of Religion On Campus Now (and Then)."



Coming in October

Roy Hargrove and his quintet will appear Saturday, Oct. 5, in Eisenhower Auditorium on the University Park Campus. For tickets or information, call (814) 863-0255.

Department of Chemistry, 3:30 p.m., 339 Davey Laboratory. Thomas Malouk on "Bricks and Mortar Approach to New Solid and Thin Films."

Gravity Center, 2 p.m., 339 Davey Laboratory. Eanna Flanagan on "Backreaction in 4D Semiclassical Gravity and the Averaged Null Energy Condition."

Tuesday, September 10

Graduate Program in Nutrition, 4 p.m., 110 Wartick Laboratory. Sean Kelley on "Effect of the Diet on Vitamin A Metabolism in the Rat: A Compartmental Analysis."

Wednesday, September 11

■ Australia-New Zealand Studies Center/Department of

Labor Studies & Industrial Relations, 4 p.m., 124 Sparks Building. Anthony Cooke on "Strike or Settlement? Trends in Australian Industrial Relations."

Wednesday, September 11

College of Arts and Architecture, Department of Landscape Architecture, 8 p.m., Scanlon Conference Hotel. George Wickstead on "The Blue Ridge Parkway That You'll Never See."

Thursday, September 12

Department of Physics, 3:30 p.m., Osmond Laboratory. Richard Hughes on "Quantum Cryptography."
Gravity Center, 11:30 a.m., 339 Davey Laboratory. Eli Hawkins on "Hamiltonian Gravity and Noncommutative Geometry."

Ceramics Seminar Series, 11 a.m., 301 Steidle. Xiaoxing Xi on "Processing and applications of oxide superconductors/ferroelectric heterostructures."

Friday, September 13

Department of Physics, 2 p.m., 339 Davey Laboratory. Richard Hughes on "Antihydrogen Physics."
Palmer Museum of Art, 3 p.m., Lipson Auditorium. Eric Schreier on "Coal, Oil and Steel: Edward Steidle and the Art of Industry."

CONFERENCES

Sunday, September 15

■ Palmer Museum of Art, 3 p.m., Lipson Auditorium. Mary F. Linda on "From the Himalayas to Home: Hindu Temples in America."

EXHIBITS

Palmer Museum

"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

"Cooking for the Gods: The Art of Home Ritual in Bengal," Sept. 10 through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," Sept. 10 through Dec. 8.

Zeller Gallery

"More is More," Visual Arts faculty collections. Through Sept. 17.

■ Reflects an international perspective

SEPTEMBER 5 - SEPTEMBER 15

News in Brief

Health Promotion programs

The division of Faculty/Staff Health Promotion kicks off its fall lineup of programs with several offerings. To register for any of these courses, call Jan Hawbaker at (814) 865-3085 or e-mail jgh3@oas.psu.edu.

Health Matters Series—The Signature Program of F/H Health Promotion

A health educator assists participants in exploring and examining various components of wellness, setting goals and determining pathways of success. Meets Tuesdays, Sept. 10-Oct. 15, from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost: \$30, reimbursable to HMO participants.

Weight Watchers AT WORK

Fall series meets Wednesdays, Sept. 11-Nov. 13, from noon-1 p.m. in the Paul Robeson Cultural Center auditorium. Cost: \$115 (lifetime members, \$105), reimbursable to HMO participants.

Enlightening Lunch Ergonomics for Everyday

Learn ways to avoid injury while performing home-related tasks such as gardening, child care and cooking. Meets Thursday, Sept. 12, from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost: None.

Employee Assistance Program (EAP) Courses

Overview of Penn State's EAP services and a brief illustration of the counseling process. Meets Monday, Sept. 16, from 1:30-2:15 p.m. in 125 Reber Building. Cost: None.

EAP: The Supervisor's Role

Illustrates how a supervisor may interact with the employee relations division, human resources representatives and the EAP when an employee's personal problems affect his/her work. Meets Monday, Sept. 16, from 1:30-3:30 p.m. in 125 Reber Building. Cost: None.

Diabetes Association walk

An 8-mile fund-raising Walktoberfest to benefit the American Diabetes Association is set for Sunday, Oct. 6. Check-in time for the event is 9 a.m. at Beaver Stadium. The walk will begin at 10 a.m. at the stadium. Participants can stroll past the Trial Gardens, wander through the main campus—passing the Nittany Lion Shrine—to Old Main and celebrate with a tailgate party complete with food, fun and entertainment for all. Shorter routes also will be marked.

Proceeds raised from the walk will be used for educational programs, advocacy and research aimed at preventing and curing diabetes. For registration information, call (800) 254-WALK.

Faculty Senate lists meeting agenda

The University Faculty Senate will meet on Sept. 10 at 1:30 p.m. in Room 112 of the Kern Graduate Building on the University Park Campus. Items to be addressed include:

- Curriculum report of Aug. 23;
- Report on the status of faculty compensation at Penn State (advisory);
- Report on the status of faculty compensation at Penn State, future Senate work on salary issues (legislative);
- Awards and scholarships (informational);
- Summary of petitions for waiver of the 10-credit limit for non-degree conditional students (informational);
- The effect of excessive alcohol consumption (informational);
- Status of construction projects (informational);
- Budgets for 1996/97, process and outcome: budget planning for 1997-98.

Members of the University community may attend. Anyone who is not a member of the Senate may request to speak on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting.

Alumni Fellows

EMS to honor vice president of Pittsburgh firm

Gary W. Weber, vice president for science and technology for PPG Industries Inc., Pittsburgh, will visit University Park on Friday, Sept. 6, to be honored as an Alumni Fellow of the College of Earth and Mineral Sciences. He will meet with faculty and students of the Department of Materials Science and Engineering and be honored at the college's annual Obelisk Dinner at the Nittany Lion Inn.



Gary W. Weber

Weber is responsible for all science and technology for a \$7.7 billion worldwide business that includes five laboratories which serve automotive, chemical, fiber glass, coatings and architectural businesses. He has been with PPG since 1992. Earlier, he spent 10 years as a research scientist and executive with General Electric, where he served as vice president for GE-Ceramics and as manager of engineering for GE's high performance abrasives business in Worthington, Ohio.

He received his B.S. in ceramic science at Penn

The Alumni Fellow award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title as permanent and lifelong. While visiting the campus, Alumni Fellows share their knowledge and expertise through classes, informal discussions and public lectures.

State in 1965, supported by a Naval ROTC scholarship. He subsequently spent five years in U.S. Naval nuclear submarine service as a line officer of Polaris and attack submarines in the North Atlantic. He returned to the University's Department of Materials Science and Engineering in 1970 and received a doctorate in ceramic science in 1974.

He began his research career at Oak Ridge National Laboratories working on the development of chemical flow lasers and carbon-carbon composite materials and numerous classified projects. From 1979 to 1982, he served as manager of technology for Carbocorundum in Niagara Falls, N.Y., working on structural materials for engines and turbine generators.

He is currently director of the Pittsburgh High Technology Council, a past member of the industrial advisory panel of the National Materials Advisory Board, a member of the Industrial Research Institute International Committee and industrial adviser to the American Ceramic Society.

Landscape architect will be feted Sept. 11-14

The 1996 Alumni Fellow for the College of Arts and Architecture, landscape architect George W. Wickstead, graduated from Penn State in 1933

with a bachelor's degree in landscape architecture and went directly into one of the most ambitious and historically significant projects in landscape architecture, the design and construction of the Blue Ridge Parkway. The parkway was the first national parkway connecting the Shenandoah National Park with the Great Smokies National Park.



George W. Wickstead

Wickstead will visit the University Park Campus Sept. 11 through 14 and will participate in several events. His visit will begin Sept. 11 at 8 p.m., when he will deliver a lecture at The Penn State Scanticon titled "The Blue Ridge Parkway That You'll Never See." The presentation is free to the public. Following that, Wickstead will spend the next two days meeting with both undergraduate and graduate students and participating in studio design classes.

Wickstead also has worked in Thomas Sears' private office in Philadelphia and has been involved in WPA projects near West Chester, Pa., country estates in Maryland and North Carolina and campus planning throughout the eastern United States. Wickstead then served in the military during World War II and the Korean War, designing and building Air Force installations in the South Pacific.

As a civilian again, his works included an industrial analysis and development study for the city of Tucson, Ariz., the master plan for Luther College, Iowa, and the 10,000-acre Dresden Industrial District near Chicago. As an associate landscape architect for the firm of Skidmore, Owings and Merrill, Wickstead was responsible for the Air Force Academy master plan report and coordinating the site development. Wickstead was made a Fellow of the American Society of Landscape Architects in 1967.

Wickstead technically retired in 1989, but is still professionally active as a consultant for The Sea Ranch, a planned 5,200-acre California community. Throughout his career, he also was an educator, twice on the faculty of the Penn State Department of Landscape Architecture. He was a visiting professor at the University of Illinois, University of Georgia, Kansas State University, California Polytechnic State University at San Luis Obispo, and on the education committee of the American Society of Landscape Architects. In 1986, Wickstead received the College of Arts and Architecture Alumni Achievement Award.

College of Engineering chooses two top-level executives for recognition

Arthur L. Glenn, president and CEO of Air and Water Technologies Corp., and Russel H. Herman, vice president and past owner of International Energy Consultants Ltd., have been named 1996 Alumni Fellows.

Both Glenn and Herman are sharing their expertise with students and faculty at University Park by participating in classes and informal discussions.

Glenn spent 35 years at GE, where he became a corporate officer and vice president, before assuming his present position at Air and Water Technologies Corp. — a \$600 million environmental services and products company with offices worldwide. Glenn received a bachelor's degree in mechanical engineering and a ROTC commission in the U.S. Army in 1956.

Glenn is an adviser to the National Science Foundation on engineering education reform. He is a member of the Leonhard Center Advisory Board, and was a member of the Industrial and Professional Advisory Committee for six years, serving as president in 1993. He is the founding and current chairman of the Penn



Arthur L. Glenn



Russel H. Herman

State Great Valley Advisory Board and was named an Outstanding Engineering Alumnus in 1990.

Herman retired in 1986 as a vice president of Exxon Corp. after a 34-year career. At that time, he founded International Energy Consultants Ltd. with two associates, and he remains a principal in the company which provides advice and counsel to senior management in the international energy industry. He also is an active member of the board of directors of Ultramar Corp., an independent petroleum refiner and marketer in eastern Canada, New England and California, with headquarters in Greenwich, Conn.

In 1951, Herman received a B.S. in chemical engineering from Penn State, and was an Evan Pugh scholar as an undergraduate. In 1982 he was honored as an Outstanding Engineering Alumnus by the College of Engineering. He serves the college as a member of the Industrial and Professional Advisory Council, and with his wife, Sandra, established an endowed scholarship in engineering.

Art instructor gives Hershey tall sculpture

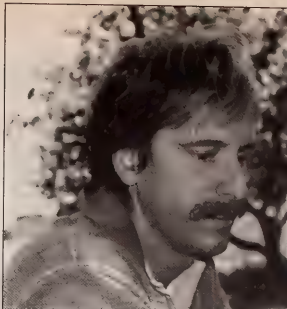
A sculpture, "The Tool, The Toy, The Child, The Man" has been donated to The Hershey Medical Center by Peter Risser, art history and studio art instructor at Penn State Harrisburg. Standing alone, the sculpture is 18 feet tall, seven feet wide and weighs about seven tons.

In July, the sculpture became a permanent fixture on the lawn outside of the Biomedical Research Building.

For Risser, this sculpture is an eight-year-old idea finally realized. Risser describes the individual shapes within the sculpture as modular elements used as a metaphor for rational thought, in essence, the scientific method.

"It's about how we build concepts and exchange knowledge," he said. "I'm concerned with the aesthetics of geometry and the way things fit together in nature."

The sculpture title reflects how the toy of the child becomes the tool of the man. We toy with ideas; we move them around and try to piece them together in our minds. As ideas take form at different points in our lives and we become adults, our perceptions, those childhood ideas, grow and mature. The sculpture design portrays this principle; as one moves around the sculpture



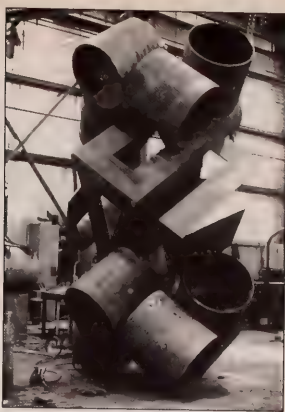
Gift to Hershey

Peter Risser, above, arts history and studio art instructor at Penn State Harrisburg, donated the sculpture "The Tool, The Toy, The Child, The Man," right, to The Hershey Medical Center. Risser designed the sculpture, which stands 18 feet tall and seven feet wide.

every 45 degrees, the vision of the sculpture becomes strikingly different.

Risser hopes the sculpture will serve as an inspiration to all, especially students, faculty and researchers.

"I donated it to Hershey Medical Center because the medical center is an educational insti-



tution. Art is integrally attached to education," he said. "Connections between art and science have broken down, but I'm returning to it, building new parallels."

Risser designed the sculpture to withstand the ravages of time and nature, even winds up to 100 mph, requiring only minimal care.

It takes an army to prepare for a home football game

As the Nittany Lions and their fans gear up for the first home game on Saturday, plenty of teams are already in action.

Scores of University employees dedicated to pleasing the 95,000 people who fill Beaver Stadium each home game have been busy for months preparing the facility and grounds. In all, about 40 Office of Physical Plant workers from electricians to plumbers, from painters to landscapers, will all invest some sweat and blood in the success of each of the six games played at Beaver Stadium.

Before each game, tradesman from every area of OPP check the scoreboard to make sure it will keep fans on their feet with flashy banter and that elevators are in working order. The plumbing throughout the building needs to receive the go-ahead and the field areas used for parking (and tailgating) need to be cut; the stadium needs to be cleaned, roads need to be graded, litter needs to be removed and the public address system needs to be able to deliver the Nittany Lion's roar on cue.

Four OPP janitors — Jackie Pollock, Denise Sellers, Becky Ray and Buddy Daughenbaugh — are representative of the workers who pull off this colossal feat every year. Together, these four are responsible for preparing what Daughenbaugh calls "a small community spread over three acres and open six days a year." The team of four, all from Tyrone, must prepare and stock the 44 bathrooms, the team

"We have a grounds crew that is preparing the field, but the bulk of the work around the stadium is done, and done well, by OPP."

Robert Hudzik, supervisor, stadium and athletic fields

clubhouses, media room, first aid stations, officials' room, police services area, the press box and several other offices. They also place 36 recycling cans around the stadium.

"It's a big job and the OPP staff is the backbone of it," Robert Hudzik, stadium and athletic fields supervisor, said. "We have a grounds crew that is preparing the field, but the bulk of the work around the stadium is done, and done well, by OPP."

Pollock said working on the pre-game preparation has given her a unique view of the stadium. "I don't think people realize how big this place is," she said.

The area is so big that the four move around on golf carts, carrying supplies from one area to the next.

And there are a lot of supplies that need to be distributed, Daughenbaugh said. For each home game, 20 cases of toilet paper to accompany the 565 commodes and 20 cases of paper towels to fill the 120 paper towel dispensers are ordered. There also are

four to six boxes of hand soap that need to be distributed, as well as other first aid supplies. It is the janitors' job to make sure all the supplies are fully stocked in each bathroom, Daughenbaugh said, adding that supplies have to be ordered separately for each game.

Bathrooms are something this team takes pride in. Unlike last year when they were allotted two weeks to prepare for the first home game, this year the crew started Aug. 5. The extra time afforded them the opportunity to clean the bathrooms from the ceiling to the floor, as well as paint some of the floors. "Hopefully, everyone will notice how clean they are," Pollock said.

But the crew will never see the results of their hard work. For the most part, the four have decided not to attend any games — although Daughenbaugh said he may go to one. For the rest of his crew, it's too painful to watch as their hard work is undone by 95,000 fans.

Knowing they will be back at Beaver Stadium preparing for the next home game, the crew said they are content to watch the games on television. Although they appreciate the efforts of the employees who take care of the stadium game day, the crew said it knows the work that lies ahead. "It's a challenge for us to get all that work done, especially when there are back-to-back games," Ray said.

For the grounds crew, a team of workers from Intercollegiate Athletics

overseen by Hudzik, the work is year-round, but more intense near the start of the season.

The typical pre-game scenario involves mowing the field to just shy of an inch in length, an average of three times a week. The field is reined at least once before every game, sometimes twice, and the end zones are reseeded. "This undertaking uses about 60 gallons of paint and takes nearly 16 hours to accomplish.

"After the games, we sweep the field, fill in the holes and the process starts over again," Hudzik said.

But regardless of their numerous tasks and the repetition of work, the four on the janitorial staff would have it no other way.

"We're a team, we know what we have to do," Ray said. And this team is like no other. They begin at 5 a.m., taking a short mid-morning break, and end in the early afternoon. Time is not the same for them. Their world is dark, and often colder than the outside — about 10 degrees cooler underneath the stadium, making it much more difficult to clean deeper into the football season.

"We're in our own world up here," Sellers said. "Time goes by really fast. We don't even notice."

Kick-off time for the first game, against Louisville, is 3:30 p.m. The game will be broadcast regionally on ABC.

Intercom staff members Amy Oakes and Lisa M. Rosellini contributed to this story.

Appointments

Department of Medicine divisions merge, gain new chief

Witold B. Rybka has been named chief of the Department of Medicine's newly combined Division of Hematology and Oncology, as well as professor of medicine, at The Hershey Medical Center.

He also will serve as associate director for medical oncology services of the Penn State Cancer Center and will institute a peripheral stem cell/bone marrow transplantation program, expanding services for patients in central Pennsylvania.

Rybka comes to Hershey from the University of Pittsburgh Medical Center, where he was medical director of the Bone Marrow Processing Laboratory, clinical director of the Adult Marrow Transplantation Program at the Pittsburgh Cancer Institute and an associate professor of medicine in the Division of Hematology/Bone Marrow Transplant. He also served as an attending physician at the University of Pittsburgh Medical Center, including both Montefiore University Hospital and Presbyterian University Hospital.

During his previous 12 years at Montreal General Hospital, he was director of the Marrow Transplantation Program, an associate physician in both the Division of Medical Oncology and Division of Hematology and a research associate at the McGill University Medicine Clinic.

He received his M.D. from the University of Toronto. He is a member of the Eastern Cooperative Oncology Group, where he serves on the leukemia committee and the marrow transplantation core committee.

He is a Fellow of the Royal College of Physicians of Canada and member of several professional associations. He is dually certified in hematology and oncology by the American Board of Internal Medicine.

Hershey appoints two to chief posts

Bringing a wide variety of experience with them, Dr. John A. Ferriss and Dr. Ralph J. Damiano Jr., have been appointed to chief posts at The Hershey Medical Center.

Ferriss was named chief of the Division of Rheumatology and Damiano was named chief of the Division of Cardiothoracic Surgery.

Ferriss, who also is an associate professor of medicine, joined the Hershey faculty in 1988. Under his direction, clinical service in rheumatology has expanded significantly. He is a Fellow of the American College of Physicians and the American College of Rheumatology. In 1985, he received the American Rheumatism Association Fellows Research Award. He is the current vice chair of the Central Pennsylvania Chapter of the Arthritis Foundation, a member of the executive committee and a consulting rheumatologist at the Veteran's Administration Medical Center in Lebanon.

Along with his professional and fellowship

experience, Ferriss also has military experience, having served as battalion surgeon for the U.S. Marine 12th Regiment stationed at Okinawa, Japan, and as chief, primary care clinic and medical officer, Alcohol Rehabilitation Service, Naval Submarine Medical Center, Groton, Conn. During the Persian Gulf War, he was recalled to active duty and served in Saudi Arabia as chief of rheumatology for Fleet Hospital 15.

Ferriss received his B.S. from Nason College, Springvale, Maine, and M.D. from Jefferson Medical College, Philadelphia. He completed his residency in internal medicine at the Medical Center Hospital of Vermont and completed a fellowship in rheumatology and clinical immunology at the University of Vermont College of Medicine.

In addition to his new appointment, Damiano was named professor of surgery and associate director of the Penn State Cardiovascular Center.

Damiano was previously associate professor of surgery at both the Medical College of Virginia and McGuire Veterans Administration Hospital in Richmond. He also was medical director of the Richmond Memorial Hospital/Medical College of

Virginia Heart Program and director of both the surgical electrophysiology and cardiothoracic surgical research laboratories.

He has been a member of the peer review committee of the American Heart Association and the national American Heart Association Surgery Study Section. He also has been an associate Fellow and Fellow of the American College of Surgeons.

He belongs to numerous professional organizations and was the recipient of the American College of Surgeons Faculty Fellowship Award from 1991 to 1993.

Damiano received his B.S. from Dartmouth College and M.D. from Duke University School of Medicine. He completed his residency in surgery at Duke University Medical Center, where he was a chief resident. Also at Duke, Damiano was a research fellow and the recipient of a National Institutes of Health National Research Service Award, as well as a teaching scholar in cardiac surgery.

Mont Alto assistant director of Student Affairs earns upgrade

Rodd Welker, Penn State Mont Alto Campus assistant director of Student Affairs, was named associate director of Student Affairs. Welker's duties include overseeing campus life, residence life and judicial affairs.

Welker joined the Mont Alto staff in 1990 as the coordinator of student activities and became the assistant director

of Student Affairs in 1992. He also currently serves as the campus men's varsity basketball head coach and has previously served as the assistant coach of the women's varsity basketball team. In 1994, Welker received the Outstanding Services to Students Program Award.

With a B.S. in business administration from West Liberty State College, West Liberty, W.V., and a master's degree in student affairs in higher education from Indiana University of Pennsylvania, Welker also serves as a member of the Council for the Prevention of Alcohol, Tobacco and Other Drug Abuse and the Eastern Christian College Board of trustees.

Director of Women's Studies Program comes from California

Stephanie A. Shields, professor at the University of California, Davis, has been appointed professor and director of the Women's Studies Program. Shields, who received her doctorate from Penn State in psychology in 1976 and taught at the Penn State Altoona Campus for two years before moving to UC Davis in 1977, specializes in the psychology of women and the relationship of gender and emotion.

At UC Davis she was the founding director of the Pro Femina Research Consortium, a management Fellow in the College of Letters and Science, and, from 1983 to 1985, director of the Women's Studies Program.

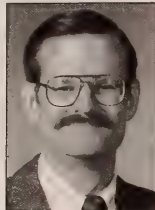
Author or co-author of more than 45 journal articles, book chapters and reviews, Shields has focused her research and teaching on human emotion, the physiological correlates of emotion, emotion in gender development and the social context of psychological research from the 19th century to the present.

Shields has received grants from the Rockefeller Foundation and the 4H Center for Youth Development Collaborative Research Project. In 1986, she held a visiting professorship for Women in Science and Engineering of the National Science Foundation (NSF) and was a Fellow of the NSF Program for Advanced Study and Research in Social Psychophysiology at The Ohio State University in 1989.

Shields received her B.S. degree in psychology from Santa Clara University in 1971 and M.S. in psychology from Penn State in 1973.



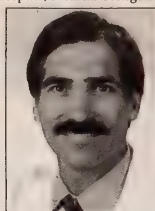
Witold B. Rybka



John A. Ferriss



Rodd Welker



Ralph J. Damiano Jr.



Stephanie A. Shields

New observations challenge standard model of galaxy formation

By BARBARA K. KENNEDY
Eberly College of Science

Many of the galaxies in the universe could have formed very differently from the process now widely accepted by astronomers, according to a paper published in *The Astrophysical Journal*.

The study concludes that a large fraction of dwarf galaxies — the most plentiful galaxies in the universe — could form not by the stately gravitational accumulation of matter but by the raucous rearrangement of tidal debris from clashes between giant galaxies.

The research is one of the most systematic studies ever done of dwarf galaxies in compact groups, according to **Jane C. Charlton**, assistant professor of astronomy and astrophysics, who authored the paper along with **Sally D. Hunsberger**, a graduate student in astronomy and astrophysics, and **Dennis Zaritsky**, assistant professor of astronomy and astrophysics at the University of California at Santa Cruz.

The researchers used the 60-inch telescope at the Mount Palomar Observatory to study 42 groups of galaxies known as Hickson compact groups, one of the rarest and densest environments in the universe and one in which galaxy collisions occur frequently. In these groups, a few galaxies are packed together as tightly as in the high-velocity centers of giant galaxy clusters, but they move slowly enough to interact as they brush past each other.

"This combination is conducive to the formation of tidal tails," the researchers said, referring to the filmy wisps that the passing galaxies draw away from one another.

"Initially, we just wanted to see how many dwarf galaxies we could find in compact groups, but then we noticed a lot of interesting tidal debris in seven of them," Charlton said. "We took a closer look at the



Jane C. Charlton, assistant professor of astronomy and astrophysics, believes many dwarf galaxies may have formed in tidal debris from other galaxy collisions.

Photo: Greg Grieco

tidal features and detected 47 areas that appear to be dwarf galaxies."

They speculate that some of the dwarfs found elsewhere throughout the compact groups originally formed in the tidal debris, while others formed by normal gravitational accretion.

Dwarf galaxies, roughly 100 million times the mass of our sun, are tiny compared to giant galaxies such as the Milky Way, which is about 100 billion solar masses. Astronomers had found many dwarf galaxies in all environments, including dense galaxy clusters and looser groups of "field" galaxies.

"Dwarfs usually are spread out in field clusters, not located near the galaxies," Charlton said.

Astronomers had assumed that the dwarfs in clusters formed by gravitational accretion, but the new discovery makes Charlton suspect that a large fraction of all the dwarfs in the universe initially formed in tidal debris from galaxy collisions, later to be flung away from the site of their birth.

"Because tidal tails are observed in all environments, this formation

mechanism could have more general implications," the researchers say. "If up to 50 percent of them form in tidal debris in compact groups, then maybe up to 50 percent of them form in tidal debris everywhere," Charlton said.

In order to estimate how many dwarfs form in tidal debris, the researchers first considered how many dwarfs are spread throughout their set of 42 compact groups, then compared that number with how many dwarfs they found in the tidal tails. They then estimated how many dwarfs would be made in tidal debris throughout the full lifetime of each group.

"It is a little tricky," Charlton said. "There are many factors that go into the estimate, but we always tried to err on the conservative side. Our most conservative estimate is that at least one-third and perhaps more than one-half of dwarf galaxies in the compact groups are formed in tidal debris."

Astronomers also see mergers going on today in field environments such as the Local Group, in which the Milky Way resides, as well as in compact groups. So, Charlton said, "a large

fraction of dwarf galaxies are likely to form in tidal debris all over the universe."

Another clue, Hunsberger said, is that the relationship between the surface brightness and the radius of the core region takes different forms for giant galaxies and dwarf galaxies.

"It is hard to imagine that galaxies with these very different properties arise from the same formation mechanism," she said.

In order to test their theories, the astronomers have been granted time on the Hubble Space Telescope within the next year to get a clearer look at the objects they suspect are dwarf galaxies in the compact groups.

"It will be interesting to compare the different properties of the dwarfs inside and outside the tidal tails," Charlton said. The research could help to improve the models astronomers use to understand how structures form in the universe.

"Maybe we will find two populations of dwarf galaxies with different properties from each other, perhaps because they formed in two very different ways," she said.

Research

Roundup

Too much time, not enough to do

Some chronically bored and disruptive adolescents need help learning to do more enjoyable and positive things with their free time, suggest findings from a survey of 2,756 high school students.

The survey found that approximately 8 percent to 9 percent of the students expressed boredom with their leisure time. About twice as many said they used leisure time to actively reject adult authority.

The important crossover we found was that about 41 percent of the females and 59 percent of the males in the "bored" group also said they spent their free time on anti-social pursuits," **Linda L. Caldwell**, an associate professor in the School of Hotel, Restaurant and Recreation Management, said. "These two factors in tandem were also associated with higher rates of a variety of undesirable health behaviors."

But the majority of adolescents find leisure time a positive experience, and among those who do get bored, there remain many who do not become anti-social.

Caldwell studied the matter with **Edward A. Smith**, associate professor of biobehavioral health.

Hangers don't hinder performance

It's not a license to drink, but managers who show up with hangers perform better than they think they do at work. They just feel lousy.

The news is from a medical study which concludes that hangers do not affect the performance of managers.

The equivalent of four to six alcoholic beverages the night before a "strategic management simulation" did not affect participants' ability to manage complex tasks, as long as they were well-practiced, according to the study.

The double-blind, placebo-controlled study at The Hershey Medical Center was organized by **Siegfried Streufert**.

"While alcohol can be extremely damaging to complex decision making when people are intoxicated, one can, in effect, have a couple of drinks and still function well the next day," Streufert said.

"However, if one feels miserable afterward, one should think about whether or not one wants to feel like this."



New center

Effective Sept. 1, the CQI Center and the Office of Planning and Analysis merged to become the Center for Quality and Planning. Louise Sandmeyer has been named executive director of the new center.

New members

The University Council on CQI thanks Nancy Cline, Barton Browning and Greg Lozier for their valuable contributions to the council and welcomes new members William Anderson, assistant vice president for Physical Plant, Rodney Erickson, dean of the Graduate School, and Scott Kretschmar, professor of exercise and sport science and chair of the Faculty Senate. 1996-97 administrative fellows Cheryl Achterberg, Gail Hurley and Sophia Wisniewska also will join the council for the academic year.

The role of quality

A panel discussion will draw on the experiences of three Penn State administrators to examine how CQI can be used as a tool in the strategic planning process. Ron Filippelli, associate dean in the College of the Liberal Arts; Clare Kristofco, assistant to the dean in the College of Engineering; and Bob Surridge, assistant provost, Penn State Harrisburg, will address quality and strategic planning issues in the Fireside Lounge of the Nittany Lion Inn from 8:30-10 a.m. on Thursday, Sept. 12.

Survey follow-up

Another panel will examine how information gleaned from the 1996 Faculty/Staff Survey can be translated into improvement strategies for the University and for individual work units. Panelists include Fred Loomis, director of organizational development in Continuing and Distance Education; Dan Sieminski, director for Finance and Business; and Billie Willits, assistant vice president for Human Resources. The panel will be held on Thursday, Sept. 26, in the Fireside Lounge of the Nittany Lion Inn from 8:30-10 a.m.

For more information about CQI, please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, (814)863-8721, les10@psu.edu.



Making hay

An Office of Physical Plant employee mows a field on the University Park Campus. If this year is anything like last year, there won't be many more opportunities to mow before workers trade in their mowers and clippers for shovels and snow plows.

Photo: Andrea Hurley

Six to serve on Professional Women council

Six University women were chosen to serve on the Coordinating Council of Professional Women at Penn State.

The council is a grass-roots group that develops and maintains a communications network and serves as a resource for other Penn State women. The group is composed of 12 volunteers who serve three-year terms, three of which will expire in June 1997.

Joining the council are: June Barczak, staff assistant for the Women's Studies Program; Sandra Grecni, senior promotion associate for Penn

State Public Broadcasting; Rosemarie Hibbler, staff assistant for the Office of Alumni Relations in the liberal arts; Elisha Nixon, program coordinator for the Multicultural Resource Center; Linda Spangler, administrative assistant for the Department of Economics; and Kimberly Townsend, human resource development specialist for the Human Resource Development Center.

They join: Jean Brooks, chair-elect and staff assistant for the Advising Center in the College of Health and

Human Development; Rhonda Decker, treasurer and staff assistant for the Jewish Studies Program; Pat Ellenberger, administrative specialist for labor studies and industrial relations; Ann Harpster, Copy Center service specialist; and Jo Anne Mengle, staff assistant for the Department of Geography.

For more information about Professional Women at Penn State, see the organization's Web site at: <http://rudolph.la.psu.edu/~pellenb/pwps/welcome>.

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■ State of the University Address



The answer man

President Graham B. Spanier answers questions from local and state media after delivering the State of the University address at Eisenhower Auditorium on the University Park Campus. The address was also broadcast live via satellite to all Penn State locations.

Photo: Greg Grieco

Spanier outlines ambitious goals, new initiatives for the coming year

By LISA M. ROSELLINI
Public Information

Urging the University community to remain optimistic about the future of higher education, President Graham B. Spanier also spelled out plans during his annual State of the University Address to hire more faculty, adopt tighter admissions standards, launch another statewide tour and seek more state funding.

In his second such address since

being named president, Spanier not only discussed the academic and fiscal concerns of the University, but also addressed the "human side" of the University. He touched on issues of citizenship, tolerance, excessive alcohol consumption, child care and employee morale.

"Humanizing the University continues to be among my top priorities," he said. "I want to re-emphasize that everyone at Penn State has a role to play in creating an open, sensitive, understanding and responsive

campus environment. To me, people come first."

During his talk, Spanier acknowledged that although change in universities is often slow, the past year has been a time of "crucial action" for Penn State. Spanier's address was peppered with new initiatives intended to strengthen academic offerings and keep the University moving forward. One such initiative is his plan to seek ongoing funding from the state for 50 new faculty posi-

See "Address" on page 2

State releases funding for Pattee Library addition

The bidding process for the new Paterno wing of Pattee Library on the University Park Campus can begin. On Sept. 5, Gov. Tom Ridge announced the release of \$11.5 million for the project.

The \$26.5 million project includes \$11.7 million in private gifts. A portion of the private funding, \$250,000, was donated by head football Coach Joe Paterno and Sue Paterno. The remainder of the funding comes from the state. The Paternos led the campaign that raised the funds for the expansion.

"Improving educational opportunities in Pennsylvania has been a goal of my administration," Gov. Ridge said. "And one of the ways in which we have looked to do this is by under-

See "Pattee" on page 3

Trustees approve request for state appropriation

A request for the 1997-98 state appropriation of \$305,209,000, an increase of \$24,230,000 over last year's total of \$280,979,000, has been approved by the Board of Trustees.

"For 1997-98, the University is requesting additional state appropriation funds to assist in covering only its most critical operating needs. This includes support for the University's basic operating

cost increases and for high-priority program needs," President Graham B. Spanier said in his presentation Sept. 6 to the board. "Penn State's highest priority is for additional faculty positions to

For more on the Board of Trustees, see pages 4-7.

See "Appropriation" on page 6

Inside



Progress made

The Life Sciences Consortium has approved seven new options for graduate study. To find out more, please see page 13.



Research

The Hershey Medical Center is continually involved in research. To read about some of the work completed there, please see page 15.

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■ State of the University Address Address

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tions. He also said he was initiating a program of internal reallocation that will earmark funds to bring even more new faculty on board.

Spanier said he also plans to review Penn State's commitment to intercollegiate research programs and invest more heavily in programs that hold the most promise. He believes new intercollegiate relationships that will keep the University on the cutting edge in the 21st century should also be forged.

"We have not stood still, but have tackled the most pressing of problems and pursued our most promising opportunities, moving quickly, collaboratively and with strong commitment to the best interests of higher education in Pennsylvania," he said.

One move announced earlier this year is the plan to reorganize Penn State's 23-campus system to allow various locations to offer four-year degrees. Spanier also recently revealed his vision to retol Penn State Cooperative Extension. These two initiatives are the most profound changes either of these areas has seen in their decades of long existence. The restructuring of these areas is being done to better meet the changing educational needs of Pennsylvania residents.

"Penn State is a large and complex institution whose organizational structure needs to evolve with growth, opportunity and the times," he said. Spanier emphasized that the changes he has proposed will strengthen the University and help fulfill its commitment to the residents of the Commonwealth.

"Without minimizing any of our challenges and problems, I can say I am genuinely enthusiastic about what is possible here," he said. "For the record, I do not buy the concept that because our challenges are unprecedented we must scale back our ambitions. The opposite is true."

One of the challenges Spanier alluded to involves the continual decline in state funding. In 1976, the state contributed 54 percent to the University's general funds budget. Just two decades later, that amount has shrunk to less than 37 percent. During the same time period, the percentage supported by tuition and fees has grown from 37 percent in 1976 to 55 percent in 1996. The lack of state support is affecting all aspects of the University, Spanier said.

"Let me give you a statistic that may shock you. Among 75 public colleges of medicine in the United States, Penn State ranks dead last in terms of how much support we receive from the state—dead last."

Spanier pledged to make a special appeal to the Commonwealth this year for support of programs at The Hershey Medical Center, which in 1995 served nearly 20,000 in-

BUDGET PRIORITIES

- Will continue to make the strongest case possible for increased state support and will ask the state for additional ongoing funding for 50 new faculty positions; launched a multi-year program of internal reallocation of institutional funds to support new faculty positions.

- Will ask for a special allocation for the Libraries and for information technology initiatives.

- Will seek a special allocation to cover deferred maintenance at all campuses.

- Will request an increase in agricultural research and Cooperative Extension budget.

- Will make a special appeal for support for programs at The Hershey Medical Center.

patients and more than 356,000 outpatients at the University Hospitals. He also promised to make the "strongest case possible" to legislators that Penn State deserves increased funding from the state.

But in addition to seeking more public funds, Spanier said the University will also rely more heavily on fund-raising as a source of dollars. In fact, Penn State this fall enters the first phase of a new comprehensive University-wide campaign that will emphasize increasing its endowment support.

Throughout his talk, Spanier touched on the themes that have become hallmarks of his presidency: his goal of becoming the top institution in the integration of research, teaching and service; his pride in the developments that are taking place at Penn State; his desire to make the University a "world campus" through the use of global technologies; and his wish to humanize the university by eliminating intolerance.

The president asked those listening to remain patient about their commitment to higher education and to the University.

"We need to anticipate and take on the challenges of Pennsylvania and beyond at every turn," he said. "This means an institution-wide commitment to our mission ... it means that we here must believe in Penn State."

HIGHLIGHTS OF THE PAST YEAR

- Research expenditures totaled a record \$344 million, up from \$317 million in 1994.
- University Scholars Program: Incoming class is the strongest ever, with average SAT scores of 1430.
- Increased state funding for agricultural research and cooperative extension.
- Dedicated Penn State's Philadelphia Center.
- More high school students, 53,238, sent their SAT scores to Penn State than any other university.
- Minority baccalaureate applications for summer/fall 1996 were up 10.3 percent.
- Received an all-time record \$83.2 million from 158,000 gifts involving 107,000 donors.
- Endowment, a key indicator of the University's economic health, has increased three-fold this past decade.



The full text of President Spanier's address is available at the University Relations Web site at: <http://www.ur.psu.edu>

Audience enthused, encouraged by talk

After President Spanier's State of the University address, Intercom gathered reactions from trustees, administrators, faculty, students and others in the University community. Their reactions centered on the optimism and enthusiasm of the address, and touched on some of the president's specific proposals, such as the ones to increase the number of faculty and to do more to internationalize the curriculum. Here are some of their comments:

■ "What I love about Graham is his tremendous optimism and enthusiasm, which is grounded in a solid plan, a vision and an understanding of how the University operates and what its potential is."

—H. Jesse Arnette, chairman, Board of Trustees

■ "I was particularly enthused by his comments about cynicism and pessimism, and the lack of passion, in higher education. That resonated with me, because of the particular business I'm in, which is communications. To see a national leader like Graham Spanier stand up and speak to this issue, and not in a Pollyannaish sort of way, is a welcome thing."

—Jack Laueter, assistant professor of journalism

■ "I was delighted with his emphasis on improving the faculty-staff ratio ... (it) sends an important message about our values as we attempt to strike a good balance between our teaching and research responsibilities."

—R. Scott Kreichmar, chair of the University Faculty Senate

■ "His speech was courageous and visionary in several ways. The three points that resonated most clearly with me were his calls for optimism and passion, for international perspectives based on pragmatic needs, and for active promotion of the values of good citizenship, particularly civility."

—John Lilley, provost and dean, Penn State Erie, The Behrend College

■ "I was pleased at his continued enthusiasm and optimism for the future of Penn State and higher education ... particularly his commitment to the tripart mission, because it addresses the interests graduate students have in their own education and their contributions to undergraduate education."

—Julie Ann Bubolz, president of the graduate student association

■ "I found his optimism refreshing."

—Dan Stearns, associate professor of landscape contracting

■ "I'm excited about the importance he places on information technology, partly because it's part of my work but also because I think it's what the University should do to be established in the 21st century."

—Mike Halm, senior research programmer, Center for Academic Computing.



A word of encouragement

Eva O'Leary-Chidester of Julian is coaxed from a slight case of stage-fright by Peter Ray, assistant director of the play "A Christmas Carol." Eva was one of nearly 100 children auditioning for a role in the play, which will be staged Dec. 6-7 by the Center for the Performing Arts and the University Repertory Theatre Co.

Photo: Andrea Hurley

Pattee

continued from page 1

scoring the tremendous contributions our libraries make to the fabric of Pennsylvania's educational system.

"There is no question that these state monies, in partnership with private donations, will be put to good use as Penn State moves to upgrade their already impressive library system."

The 122,000-square-foot expansion, to be called the Paterno Library, will house the Special Collections Library, including Rare Books Room, University Archives/Penn State Room, Historical Collections and Labor Archives, as well as reading rooms, exhibit areas, offices and workrooms.

The second floor will house the Social Sciences Library and the third and fourth floors, which will be expanded, will house the Business Library, part of the Social Sciences Library and the Life Sciences Library. The fifth floor will house the Education Library and administrative offices.

The addition is designed to create an integrated look to the library, bringing together the original 1939 Central Pattee, 1965 West Pattee, the 1949 Stack Building and the 1972 former East Pattee, now part of the

Paterno Library. The glass facade of East Pattee (facing Curtin Road) will be removed and stone and brick finishes with cornices and columnar windows will complement older parts of the building.

In addition, the project will improve the central facility which also serves Commonwealth Educational Campus libraries and other branch libraries on the University Park Campus, and which serves public and academic libraries throughout the Commonwealth.

President Graham B. Spanier said the library construction project, now slated to begin in early 1997, was a top priority for the University.

"We are grateful for the governor's support of the Paterno Library," Spanier said. "In a time of limited state resources, this project is a great example of how private fund-raising can be conjoined with state support to serve the best interests of the Commonwealth."

"The Commonwealth's financial commitment to the library, when added to the impressive support of thousands of donors, will allow Penn State to expand its already excellent library services," he said.

BOOK SHELF

Jean-Marc Bollag, professor of soil biochemistry and director of the Center for Bioremediation and Detoxification, and Gunther Stotzky, New York University, are co-editors of *Soil Biochemistry*, Volume 9.

The horizons of soil biochemistry have been vastly broadened in the past few years. Soil microorganisms and their enzymes are becoming a more accepted means of pollution control, as recent studies indicate their usefulness in the detoxification of pesticides, heavy metals and other pollutants.

This volume provides up-to-date reviews on the conditions that affect the quality of soil and on the methods of measuring the effects of soil management and bioremediation. Discussion focuses on indigenous or introduced microorganisms with the capacity to remediate pollutants.

Twenty-five internationally acclaimed scientists contributed to the volume which is published by Marcel Dekker.

Far more than repackaging liberalism, diversity is a business initiative that

ultimately heightens productivity and profits according to a new book written by Janice L. Dreachlins, associate professor of health policy and administration at Penn State Great Valley.

Diversity Leadership, published by the American College of Healthcare Executives, says businesses must move beyond image-driven "window dressing" and begin to demonstrate an understanding of the demographic and social changes that have forever altered the face of America's labor pool.

Consider the following:

In 1990, nearly one in every four Americans was Asian, black or Hispanic, as compared to about one in 10 in 1970.

Analysts for the Urban Institute project that, soon after the turn of the century, one in three Americans will be Asian, black or Hispanic.

Diversity Leadership is a primer that guides business leaders through the diversity process. In a five-part framework — discovery, assessment, exploration, transformation and revitalization — the book's 12 chapters

offer a comprehensive foundation for action interspersed with case studies. Though the book focuses primarily on health-care related organizations, its strategies and insights are applicable to all businesses.

Of particular interest to managers are sections on choosing a diversity consultant and dealing with employee backlash to diversity programs.

Akhlesh Lakhtakia, associate professor of engineering science and mechanics, is editor of the latest volume in the SPIE (The International Society for Optical Engineering) Milestone Series, titled *Selected Papers on Linear Optical Composite Materials*. Sixty articles comprise the 720-page volume.

The SPIE Milestone Series was introduced in 1985 to present a limited number of papers written on an important topic warranting a great deal of research and attention. Papers selected for inclusion are those deemed significant to the field and able to withstand the test of time.

The new volume takes readers through three sections: a general introduction to particulate composite materials and the theories that surround them (dating back as far as 1806); a section on laminated composites; and a final section on current cutting-edge research on thin films.

Lakhtakia, who is also editor of Volume 15 in the series, *Selected Papers on Natural Optical Activity*, has

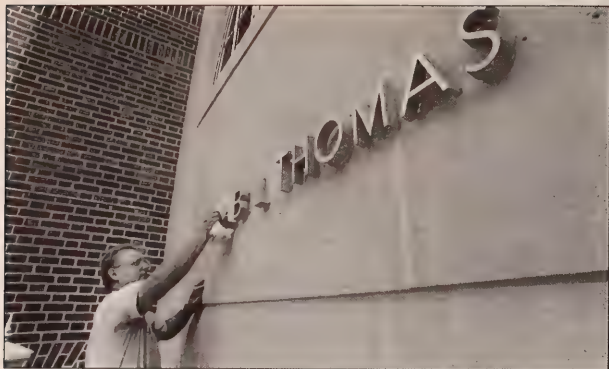
authored or co-authored more than 150 journal publications and two books on linear chiral media, and has recently begun working on research into nonlinear chiral media.

Francis T. S. Yu, Evan Pugh professor of electrical engineering, is the co-editor of *Optical Storage and Retrieval: Memory, Neural Networks and Fractals*, Volume 54 in the Optical Engineering Series published by Marcel Dekker Inc. The 344-page book was released in June and was co-edited by Suganda Jutamulia, general manager of research and development at Kowa Company, Ltd., in San Jose, Calif., and associate professor of biomedical engineering at the University of North Carolina, Petaluma.

In order to improve technology in the information age, scientists and engineers like Yu and Jutamulia are attempting to replicate, as closely as possible, human memory. *Optical Storage and Retrieval* provides an overview of the developments made in recent years in optical memory, neural networks and fractals based on the perspectives of engineers and technicians in the field of optical information processing.

The book was written by international experts representing the United States, Japan and Russia, and is geared toward optical, electronic and computer engineers; physicists; chemists; materials scientists; and graduate students in any of the above areas.

From the Trustees Docket



It's official

The former Classroom Building at the corner of Pollock and Shortliffe roads on the University Park Campus was dedicated on Sept. 5 and renamed the Joab L. Thomas Building in honor of Penn State's 16th president. Thomas, who retired last year, was on hand for the ceremonies. Thomas said the renaming of the \$10.9 million structure to bear his name "exceeds my fondest dreams." Here, Lynn Bigelow, a mason from the Office of Physical Plant, polishes the new nameplate.

Photo: Greg Grieco

Access to Penn State increases

The convergence of digital technologies—interactive video conferencing, computer and audiographic teleconferencing, the World Wide Web, e-mail and telephone voice response systems—is transforming distance education at Penn State.

In a presentation to the Board of Trustees Sept. 6, James H. Ryan, vice president and dean for Continuing and Distance Education, and Gary Miller, assistant vice president for distance education, outlined ways distance education as a University-wide function enhances Penn State's ability to serve students in all parts of the world.

Penn State has been involved in distance education since 1892, when it first offered correspondence courses to relieve the isolation of rural communities. From the outset, its programs spanned geographic boundaries. In fact, the first four graduates of the certificate in agriculture program were from Pennsylvania, the Oklahoma Territories and Canada.

Today, distance education creates a highly interactive, learner-centered environment that is marked by increased access to faculty expertise and increased access to information resources. Priorities at Penn State for developing such programs are:

- Workforce education at a distance to meet the needs of the workforce nationally and internationally;
- Institutional and international partnerships that extend Penn State to a national and international

population of nontraditional students;

- Outreach for economic and community development through Cooperative Extension and other units to reach underserved areas with information and training for success in today's information society;

- Youth and school partnerships, such as Pennsylvania's new Link to Learn project, 4-H programs and individual schools; and

- Pedagogy and leadership by working with other centers to develop instructional theory and principles of good practices in distance education.

Miller reviewed a number of new distance education programs that fit these priorities, such as a new graduate program in elementary education that involves the College of Education and the DuBois Campus; an International Business Logistics Certificate Program with The Smell College of Business Administration; and a program in education that works with community colleges in other states to offer graduate courses in adult basic education.

"In the last two years, we have attracted more than \$1 million in foundation support to allow faculty to create new approaches to distance education," Miller said. "Teleconferencing has extended Penn State faculty expertise to audiences around the nation, especially in the area of workforce education and continuing education for professionals.

Programs tailored to specific clients such as Bethlehem Steel, the United Brotherhood of Carpenters and Wawa convenience stores are examples of partnerships among Penn State colleges and campuses, employers and unions.

Other partnerships for distance education include other universities such as:

- LionHawk, a partnership between Penn State and the University of Iowa to offer a bachelor's degree at a distance for adult learners nationally.

- The Russian Distance Learning Project, a partnership of Penn State, the University of Minnesota and the U.S. Peace Corps to provide American business management techniques to Russian managers using print, video and e-mail to link learners and teachers.

To carry out these initiatives more effectively, the University has made a number of administrative changes to move distance education into the mainstream of University academic life. These included creating Miller's position as assistant vice president for distance education, which occurred in 1994, and creating a University-wide Distance Education Advisory Committee.

Now in the works is a small working group appointed by President Graham B. Spanier to test the possibility of creating a virtual campus at Penn State in recognition that the University is serving a global student population.

Annual report from Commission for Women notes improvements

The Penn State Commission for Women, an advisory group for the president, noted improvement in child care and the number of women on the faculty in a presentation to the Board of Trustees Sept. 6, but expressed some concern for retention of women in leadership roles.

"Obviously we focus on issues concerning women, but whenever we do anything, it benefits everyone at the University," said Ellen Walker, past chair of the Commission for Women. "If we work on child care, everyone benefits. If we look for a voice for the staff, the whole staff benefits."

Child care is one of the areas where Penn State is moving forward, according to the Commission for Women's 1995-96 annual report.

"Between 1985 and 1995, there was an 88 percent increase of women faculty at University Park and a 33 percent increase in the Commonwealth Educational System."

Ellen Walker
past chair
Commission for Women

The Commission strives to work cooperatively and collaboratively and the first "Take Our Daughters to Work Day" was no exception. The program was co-sponsored by the commission, the Office of the President, Document Services, Office of Business Services, Housing and Food Services and the

Office of Human Resources. The program provided the opportunity for girls and young women to learn about career options and to see woman at work, particularly in nontraditional fields.

The student concerns subcommittee identified mentoring as a crucial factor in women's success at the University. They published the *Directory of Mentoring Programs for Undergraduates at University Park* and will establish a mentoring program for undergraduate women.

"Between 1985 and 1995, there was an 88 percent increase of women faculty at University Park and a 33 percent increase in the Commonwealth Educational System," Walker said. "While only 25.6 percent of University Park faculty and 29.6 percent of CES faculty are women, we believe the growth in numbers signals the commitment of the University to increase equity for women."

However, the lack of sustained and substantial growth in the numbers of women in leadership continues as an area of concern. Only 10.5 percent of full professors are women and the numbers of women in academic administration positions has dropped from a high in 1992, but still shows a modest gain over six years ago. While women have made great strides in non-academic administrative positions, the number of women in executive positions has remained constant.

Also of concern to the commission is the development of a mechanism allowing systematic input from University staff members on decisions that directly affect them. Two notable attempts in this direction are the development of the Staff Advisory Group in the Office of Human Resources and the invitation to provide input to the University Planning Process.

From the Trustees Docket

University moves ahead with plans for retirement community

A Penn State review team working on a University-related retirement community project got the go-ahead from the Board of Trustees to enter into an agreement with a project team, consisting of Cooperative Retirement Services of America Inc. (CRSA), of Memphis, Tenn., and Pinnacle Development Inc., of Boalsburg, to conduct a market and feasibility study for the project.

As of May 1996, the Penn State review team had received responses to a request for information from 18 firms interested in developing and operating a retirement community — which has the working title of “The Village at Penn State.” The committee narrowed the list down to six firms. Among those six were CRSA and the Pinnacle group, which decided to submit a joint proposal, and four other companies that decided not to respond to the request for a proposal.

In general, retirement communities of the kind envisioned by Penn State provide several levels of services for retirees: independent living, for those who can care for themselves; assisted care, for retirees who need some help with personal needs, but are largely self-sufficient; and skilled care, which provides high-level care in a nursing-home environment.

The CRSA/Pinnacle team has extensive experience in developing and operating retirement communities and planned unit communities, the board was told. The Penn State team will need to work out agreements with CRSA/Pinnacle that will:

- specify a site for the Village;
- outline University participation on the boards that would run it;
- provide for joint review of project development plans and approvals at key points in the development process;
- allow the use of the University name; and
- define how the Penn State Alumni Association will provide marketing assistance for the project.

CRSA is currently operating retirement communities with 39 organizations — mostly non-profit institutions and groups — in 22 states. Earle Wade is the CEO, and Martin Salava is the executive vice president for development.

The Pinnacle group has put together a strong local team that consists of Robert Poole of S&A Custom Built Homes, of Bellefonte and State College; Philip Sieg, chair of the Sieg Financial Group, State College; Clifford R. Coldren from Brookline Village in State College; William Schreyer, former chair of the State of Trustees and retired CEO of the chair of Merrill Lynch and Co. Inc.; and Joe Paterno, Penn State's head football coach.

William H. McKinnon, Penn State's senior associate vice president for finance and business, told the board that the Pinnacle group “brings extensive experience to the project in the area of planned unit development projects and financial support. They also have a thorough knowledge of the local market.”

Over the last several months, a University

review team has been seeking an outside operator to market, design, finance, build and operate a retirement community, possibly on University-owned land. McKinnon is the chair of the team, which also includes Peter B. Weiler, assistant vice president and executive director of the Alumni Association and interim associate vice president for development and alumni relations; Dr. James E. Meade, a physician at the Hershey Medical Center; Barton W. Browning, associate professor of German and past chair of the University Faculty Senate; James A. Rhodes, director of trusts, estates and endowments; and Barbara Shannon, dean of the College of Health and Human Development.

Trustees Edward P. Junker III, vice chairman of PNC Bank, and L.J. Rowell Jr., retired chairman and chief executive officer of the Provident Mutual Life Insurance Co., participated in the final phase of evaluating and choosing a project team.

As it is currently envisioned, the University-allied community would consist of two distinct kinds of facilities: a planned unit development (PUD) for retirees generally in the 55-75 age group and a continuing care retirement community (CCRC) generally for those over 75.

Penn State would not use any University funds to develop the project, and would not own or operate the facility. But both parts of the retirement village would have access to University programs, services and facilities that would benefit the Village and its residents as well as the University and its students. As a whole, the Village would probably involve:

- the Hershey Medical Center, in providing medical care;
- the College of Health and Human Development, in doing research and providing services; and
- the Alumni Association, in promoting and marketing the Village, especially to Penn State alumni, faculty and staff.

In addition, a retirement community associated with Penn State would be able to provide internships and work opportunities to Penn State students in health planning and administration, recreation and leisure activities, hotel and restaurant management, human development and family studies, nursing, nutrition and other related disciplines. It could also be tied into Penn State classes, athletics and cultural events.

Penn State is exploring the development of a retirement community because it believes that the State College area is highly attractive to retirees with Penn State ties and that the University's involvement will help ensure the success of such a community. Currently, there are about 1,000 such facilities across the country, with about 45 of them located near Philadelphia.

Groundbreaking for the facility is several years away.

HUB/Robeson plans get nod



An architect's preliminary sketch of the new HUB/Robeson center

The sketch/preliminary plans for a joint project involving the expansion of the Hetzel Union Building and the construction of a new Paul Robeson Cultural Center at the University Park Campus have been approved by the Board of Trustees.

Designed by Williams Trebilcock Whitehead Architects of Pittsburgh, the HUB/Robeson project will add 90,000 gross square feet to the HUB's existing 154,000 gross square feet and the Robeson Center's 9,000 gross square feet.

The design incorporates four key concepts: 1) to minimize the impact on the HUB lawn; 2) to create a new major entrance with a better identity on Pollock Road; 3) to consolidate foot traffic along an indoor concourse with a four-story atrium; and 4) to create a distinct, yet connected identity for the new Robeson Center.

OPEN FORUM

Faculty, staff, students and members of the community are invited to attend an open forum on the HUB expansion/Robeson Center project on Thursday, Sept. 12, from 7 to 9 p.m. in the HUB Ballroom on the University Park Campus. A second forum will be held from 11:30 a.m. to 1:30 p.m. Friday, Sept. 13, in the HUB Fishbowl. Members of the Building Design Committee and representatives from the architectural firm Williams Trebilcock Whitehead will be available to discuss the project. Architect renderings and schematic designs will be on view.

Built in 1955, the HUB is the main student union on the University Park Campus, serving more than 50,000 students, faculty, staff and visitors. The HUB was expanded in 1974 and remodeled in 1981. However, over the last 15 years, there has been significant growth in the number of students, faculty and staff at the University Park Campus. It is estimated that approximately 25,000 people use the building daily and nearly 7,000 events are scheduled annually in the building.

The Robeson Cultural Center is housed in a World War II structure that was moved to the campus in the early 1950s and designated as a temporary student union building. In 1995, 561 events were held in the center, attracting 24,000 participants.

The design calls for a linear addition, running from the west end of the HUB and ending in the middle of the south wall of the Penn State Bookstore.

The new Robeson Center, using an oval-shaped element, will be located at the east end of the addition, rising three stories with each story connected to common hallways. The Pollock Road entrance will be modified into a more pedestrian-friendly space in front of the building. A new four-story atrium space with skylights will connect the addition to the existing building. The exterior of the entire project will be constructed of brick veneer, glass and precast stone, matching the existing HUB's brick veneer, stone-like trim and window curtain walls.

There are more than 425 registered student organizations at University Park, with at least 100 of them expected to have or seek office space in the new HUB or Robeson Center. In addition, the project calls for dedicated quiet study lounges, additional meeting rooms, redesigned food services operations, information and computer services, improved access for users with disabilities, recreation and art gallery space, an expanded ballroom and a new auditorium.

This expansion has a total project budget of \$23 million. The student activity fee, which was implemented this fall, along with private support and University funds, will finance \$21 million of this total, while the remaining \$2 million will be funded by Housing and Food Services.

From the Trustees Docket

Final plans for construction get OK from Board

Several projects to increase laboratory and storage space for the University have been given the nod.

The trustees approved final plans and authorized the University to obtain bids and award contracts for an addition to the Noll Laboratory on the University Park Campus. The three-story addition will house a clinical research facility, a joint operation between The Milton S. Hershey Medical Center and the College of Health and Human Development.

The clinic will have a separate ground floor level main entrance facing North Atherton Street. The total project budget is \$2.3 million and the plans were designed by Burt Hill Kosar Rittelmann Associates of Butler.

Also for the University Park Campus, the trustees authorized the University to obtain bids and award contracts for construction of a \$600,000 addition to the University Support Building 1. The addition will provide much-needed storage space for publications of the Penn State Press as they await shipping.

Eventually, the press hopes to consolidate all of its storage at the new site and discontinue its use of the Dry Storage Building for this purpose. As designed by the Office of Physical Plant, the new prefabricated metal building will match the existing University Support Building 1, where the press is located.



Expanding

University Support Building 1 on the University Park Campus will receive a much-needed addition to help with storage space for the Penn State Press operations.

Photo: Greg Gierco

Appropriation

continued from page 1

reduce class size and improve the overall quality of its educational programs. Additional program support is requested for libraries and information technology and for deferred maintenance requirements.

Additional funding is also requested for agricultural research and cooperative extension, the College of Medicine at The Hershey Medical Center and for the Pennsylvania College of Technology.

The Commonwealth's budget instructions require the University to submit its annual budget plan and request for state appropriations to the Department of Education in late September. Although not required, it has been the University's practice to bring the request to the Board of Trustees for review and approval before its submission to the state.

"The University has felt the effects of limited state resources for several years," Spanier said. "Our appropriation from the Commonwealth has increased by a total of only 8.6 percent over the last six years, from \$258.7 million in 1991-92 to \$281 million in 1996-97. When adjusted for inflation, however, the purchasing power of the University's appropriation is actually 6.6 percent less than it was in 1991-92. Underfunding continues to be one of the University's most serious problems."

The lack of state support is also reflected in the fact that Penn State has the lowest total expenditures per student of all its Big 10 counterparts.

The 1997-98 appropriation request of more than \$305 million is for expenses in four major — the educational and general budget; agricultural research and Cooperative Extension; The Milton S. Hershey Medical Center; and the Pennsylvania College of Technology.

The educational and general budget supports most of the University's basic teaching, research and public service programs. On the expense side, it includes basic operating cost increases of more than \$23.2 million and \$5.7 million for additional program support.

It also includes planned budget reductions for academic and support units and selective reinvestment to areas of critical need as identified by a new five-year strategic planning process under the guidance of the University Planning Council.

This is the sixth consecutive year that an internal reallocation process has been in effect. During this

period more than 10 percent of the departmental budgets have been reallocated to areas of critical need. In 1997-98, support units will reduce their budgets by 1.5 percent, while the colleges will reduce theirs by 1.2 percent. These reductions will generate nearly \$3.77 million for reallocation to areas in need.

The requested \$5.7 million for program support will provide support for 30 additional faculty positions to help reduce large class sizes; critically needed support for libraries and information technology; and necessary funds for deferred maintenance.

According to the Joint State Government Com-

"The University has felt the effects of limited state resources for several years ... When adjusted for inflation, the purchasing power of the University's appropriation is actually 6.6 percent less than it was in 1991-92. Underfunding continues to be one of the University's most serious problems."

University President Graham B. Spanier

mission Report, Penn State's current student/faculty ratio is 18 to 1, compared to 15.2 to 1 for the University of Pittsburgh and 16.3 to 1 for Temple University. The University would need an additional 500 faculty positions to bring its faculty ratio up to the average of Pittsburgh and Temple. The shortfall in faculty has resulted in an average undergraduate class size that is the largest of all state-related and state-owned universities in Pennsylvania.

The University has developed a three-year plan to add approximately 75 faculty positions per year, for a total of 225. Funding of \$2.96 million is being requested to help reduce large class sizes and to improve the overall quality of the educational experience for Penn State students. This support would provide 50 new faculty positions each year and the equivalent of 25 new positions per year would be identified through the University's internal reallocation process. At the end of this three-year period, Penn State would still need an additional 275 positions to reach the average student/faculty ratio for Pitt and Temple.

Basic operating cost requests also include salary

adjustments of 3.75 percent; health care cost increases of 6 percent; and inflationary cost increases of 2.9 percent for departmental operations.

On the income side of the educational and general portion of the University's budget, the University anticipates \$9.9 million from a projected tuition rate increase; \$1 million from investment income and 1996-97 Summer Session tuition rate changes; and a little over \$18 million in additional appropriation support from the Commonwealth.

"Because Penn State received no increase in the educational and general appropriation in 1996-97, the tuition rate increase had to be slightly higher than originally anticipated," Spanier explained. "For 1997-98, the University hopes to hold its overall tuition increase to the projected rate of inflation — 2.9 percent — although the actual tuition of each student might vary from this percentage should differential tuition be implemented."

A 2.9 percent increase would result in an average increase of \$78 per semester for state-resident undergraduate students at University Park.

The University's state appropriation request also includes the following:

- Expenses for agricultural research and Cooperative Extension include \$1.45 million for salary adjustments and benefits cost increases; \$84,000 for inflationary cost increases in departmental operations, and more than \$2.1 million for program support. An appropriation increase of about \$3.65 million is requested.

- Expense and income changes for The Milton S. Hershey Medical Center are based on the same planning factors as the Educational and General budget. A total of \$908,000 is requested for salary adjustments, employee benefit cost increases and inflationary cost increases for departmental operations. Also included is \$1 million as the first year of a five-year program to provide additional support for the College of Medicine.

- Expense and income changes for the Pennsylvania College of Technology are based on the same planning factors as the educational and general budget. A total of nearly \$1.25 million is requested for salary adjustments, employee benefit cost increases, inflationary cost increases for departmental operations, and a modest reduction in the scheduled debt service payment. Also included is \$300,000 for additional program funds to support the delivery of distance learning programming at Penn College.

From the Trustees Docket

University's budget request reflects need for more facilities

Penn State has assigned highest priorities to the construction of modern classroom instructional facilities and the renovation of existing facilities in its 1997-98 Capital Budget Request, which the Board of Trustees approved Sept. 6.

The University's request of \$102.4 million will be submitted to the Department of Education in Harrisburg for consideration by the state Legislature.

Of this amount, \$46.75 million is for new construction projects, \$31.5 million is for renovation

projects and \$4.15 million is for original equipment for projects that have been previously authorized by the Legislature.

"This request should not be confused with requests from prior years, which have been authorized but not yet funded by the Commonwealth such as the chemistry building, the new research center and the Leonhard Building," President Graham B. Spanier said.

"Should the items on the capital budget request be authorized by the Legislature, they will join the long

list of projects awaiting capital funding. Last year's capital budget request of \$104.55 million, which was approved by the Trustees in September 1995, was not authorized by the Legislature. For this reason, our request for fiscal year 1997-98 is a slightly revised version of last year's request."

The 1997-98 Capital Budget Request reflects changing priorities of the various academic and administrative units through updates of their strategic plans. Modern classroom instructional facilities have been assigned the highest priority and the capital request emphasizes the renovation of existing facilities.

Criteria for selecting capital projects to be funded were developed by the Capital Project Review Committee and give high priority to:

- Instructional facilities that support teaching and research;
- Specialized technology classrooms and labs;
- Biological and life sciences, because of anticipated growth;
- Modernization of existing science facilities; and
- College of Engineering consolidation.

The following new construction projects proposed for 1997-98 total \$46.75 million and are listed in order of priority:

— Phase II of the Classroom Building at University Park (\$12.1 million). This building, which is the University's top priority, is the second phase of a state-funded project. Both phases will be additions to the University-funded Thomas Building, which opened in 1992. Completion of this project will help

meet an ongoing shortage of general-purpose classrooms suitable for modern instruction and will allow renovations of the Willard classroom building to begin.

Library addition and an auditorium/classroom building at Penn State York Campus (\$11.9 million). The library addition will accommodate the growth of library materials and provide stack, study and user spaces for instruction, while the classroom building will include an area for theater productions and convocation events.

— Academic activities building at Penn State Harrisburg (\$3.75 million). This will address existing space deficits and provide modern instructional classrooms, laboratories, offices and support spaces for graduate instructional and research activities that now occur in a 1950s building constructed for the U.S. Air Force.

— Library depository facility at University Park (\$11 million). The growth of library materials and historical collections at University Park has completely surpassed available space, and the University currently leases more than 30,000 square feet for donated archival and special collections such as the United Mine Workers archives and seismic tape records. The library will be able to consolidate off-campus leased storage areas and return these materials to campus, as well as provide space for new donated collections.

— Addition to a building at Penn State Great Valley (\$8 million). This project will provide classrooms, lecture rooms and instructional support areas to accommodate current and future enrollments.

The \$51.5 million for seven renovation projects addresses obsolete mechanical systems; interior surfaces; building systems; windows, roofing and pedestrian circulation areas; and physical features relating to the Americans with Disabilities Act. All lighting, heating and cooling renovations will incorporate energy-efficient technologies designed to reduce long-term operating costs.

The six renovation projects slated for University Park are:

— Willard Building (\$10.3 million). Originally constructed in 1949 with an addition in 1964, it is the most heavily used classroom building on campus.

— Five Engineering Units, built in 1912-1919, and Sackett Building, built in 1928, (\$8.6 million). These will be renovated after construction of the new West Campus engineering buildings.

— Chandler Laboratory (\$10.2 million). Built in 1964, the lab will be renovated after construction of

the new chemistry building, which was authorized in 1993.

— Portions of Whitmore Laboratory, built in 1951, and Davey Lab, built in 1969, (\$10.2 million). These will also be renovated after completion of the chemistry building.

— Sparks Building (\$9 million). Built in 1915, Sparks will be renovated for academic programs in the College of the Liberal Arts. Existing programs and occupants will be relocated to Chandler Lab during construction.

The seventh renovation project is the General Studies Building at the Mont Alto Campus, which will be renovated for an estimated \$3.2 million.

Priorities for the \$41.5 million original equipment request are for projects that were authorized in previous capital bills signed by the governor. They are equipment for the Biomedical Technology Center at the Fayette Campus (\$660,000); renovation of the Animal Diagnostics Laboratory and Incinerator at University Park (\$240,000); acquisition of land and development of an Ag Instruction Center at the Berks Campus (\$850,000); addition to the Academic Building at the New Kensington Campus (\$260,000); an Electrical Distribution System at University Park (\$390,000); Technology Center at the Wilkes-Barre Campus (\$200,000); and the Multi-Purpose Facility for Student Activities at Penn State Erie, The

PROJECTS STILL ON HOLD

Listed here are a few of the nearly 70 Pennsylvania Department of General Services (DGS) construction projects that have been approved by the Board of Trustees and authorized by the Legislature since 1988, but have not yet been funded by the Commonwealth. They include new buildings, building renovations, upgrades to electrical, water and heating systems, and alterations to facilities to meet Americans with Disabilities Act requirements. Some are approved to be funded jointly by the University and DGS, others are to be funded wholly by DGS. Unless otherwise noted, projects are at University Park:

■ Leonhard Research Building, College of Engineering (DGS \$10 million; Penn State, \$5 million);

■ New Research Center (DGS \$12.7 million; Penn State \$5 million);

■ General Purpose Classroom Building (DGS \$3 million; Penn State \$2 million);

■ Chemistry Building (DGS \$52.5 million);

■ Renovations of Weaver and Patterson buildings (DGS \$3.3 million; Penn State \$2.2 million);

■ Renovations of Burrows Building (DGS \$5.25 million);

■ Land acquisition and construction of Agricultural Instruction Center, Berks Campus (DGS \$5.5 million);

■ Multipurpose Student Activities Building, Penn State Erie, The Behrend College (DGS \$10 million);

■ Classroom Building, Delaware County Campus (DGS \$2.4 million; Penn State \$600,000);

■ Biomedical Technology Center, Fayette Campus (DGS \$4.4 million);

■ Addition to Science and Technology Center, New Kensington Campus (DGS \$1 million; Penn State \$550,000);

■ Technology Center, Wilkes-Barre Campus (DGS \$1.2 million).

Behrend College, (\$1.55 million).

The ARTS

AT PENN STATE



On the menu

"Cooking for the Gods: The Art of Home Ritual in Bengal" is on display through Dec. 8 at the Palmer Museum of Art on the University Park Campus. The exhibit showcases the art of the home rituals, including Krishna, an 11-inch brass statue, left, and Shalagrama stand, a 23-1/4 inch piece. The items, from the collection of the Newark Museum, are gifts of Dr. and Mrs. Richard J. Nalin.

Bassoonist recital

Daryl Duran will present a free recital of music for bassoon at 8 p.m. Monday, Sept. 16, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Performing with Duran will be faculty members Marylene Dosse, piano; Timothy Hertz, oboe; June Miller, harpsichord; and students David Moore, oboe; and bassoonists Katherine Jones, Matthew Schell and Melissa Etling.

Duran is a member of the Pennsylvania Quintet, principal bassoonist of the Pennsylvania Centre Chamber Orchestra and has served as principal bassoonist of the Music at Penn's Woods Festival. This summer he performed with the Festival of Two Worlds Orchestra in Spoleto, Italy. In addition to teaching at Penn State, Duran has taught at the National Music Camp, Interlochen, Mich., and the American Band College, Ashland, Ore.

Recital of Winterreise

Norman Spivey, baritone, and Robert Hatten, piano, will present *Winterreise* by Franz Schubert at 8 p.m. Thursday, Sept. 19, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The concert is free to the public.

Spivey is assistant professor of voice and voice pedagogy. Before his appointment at Penn State, he was a Fulbright scholar in Paris.

Hatten is associate professor of music theory. His book, *Musical Meaning in Beethoven: Markedness, Correlation and Interpretation* was published in 1994.

Richard Page, assistant professor of German, will give introductory remarks.

Nittany Valley Symphony opens 30th season

The Nittany Valley Symphony opens its 30th anniversary season at 8 p.m. Tuesday, Sept. 24, in the Eisenhower Auditorium on the University Park Campus with music from American and French composers.

Keeping with this year's theme of "Musical Voyages," Maestro Jinbo will take the audience "From New York to Paris" on opening night. Cecilia Dunoyer, a member of the piano faculty at Penn State, will be the soloist for the Ravel Piano Concerto in G.

Major, Timothy Shafer, associate professor of music, will play Gershwin's *Rhapsody in Blue*.

Dunoyer is the recipient of numerous awards and prizes for her solo and chamber music performances and has held concerts throughout the United States and Mexico and in her native Europe. Shafer, who has performed at Carnegie Hall, is well known for his frequent performances as part of Duo Concertant with violinist James Lyon.

Tickets are available at the Eisenhower Ticket Center for \$14, regular admission; \$12 for seniors; and \$6 for student/child. Call the ticket center at (814) 863-0255. For season subscription information, contact the Nittany Valley Symphony at (814) 231-8224.

The Dave Matthews Band at Jordan Center Oct. 7

The Dave Matthews Band, with special guest Boxing Gandhis, will appear at The Bryce Jordan Center at 7:30 p.m. Monday, Oct. 7. Tickets are available at the Bryce Jordan Ticket Center, selected Uni-Marts, Penn State campus outlets in Altoona, Erie, Hazleton and Reading or by calling (814) 865-5555, or toll-free at (800) 863-3336. Tickets are \$22.50 for reserved seating.

One of pop's most striking success stories has been the rise of the Dave Matthews Band, whose 1994 RCA debut "Under The Table And Dreaming" went triple platinum and earned two Grammy nominations for the first single, "What Would You Say."

The Dave Matthews Band plays a complex blend of folk, jazz, rock, world beat and reggae. This year the Dave Matthews Band has broadened its style with the release of *Crash*, the band's third album.

Comedian at Penn College

Comedian Bobby Collins will make his Williamsport debut at the Community Arts Center, part of Penn College, on Sunday, Nov. 17, at 7:30 p.m.

A 10-year veteran of the comedy clubs in New York and Los Angeles, Collins' physical, sometimes outrageous, humor gained him instant notoriety and notice. Comedienne Rosie O'Donnell selected Collins to replace her as the host for VH1's series "Stand-up Spotlight," and Collins garnered a CableAce Award.

Tickets are \$16.50 and \$14.50, and go on sale Monday, Sept. 23. For more information, please call (717) 326-2424 or (800) 432-9382.

Special exhibits at Kern

Kern Exhibition Area on the University Park Campus will display the photographic work of Robert Vander Voort through Oct. 15, and the pottery of Ian Stainson from Sept. 17 through Oct. 13.

The photo exhibit, "Lewis, Untangling Strings," is a dramatic and sensitive series of black and white photographs of Lewis, a man with Parkinson's disease.

Stainson studies at Cumbria College of Art and Design. He has worked in Scotland, England and West Wales; and gained 11 years of experience at Llarnarth Pottery, one of the finest potteries in Wales. He is a working potter in Pennsylvania.

The Kern Exhibition Area is on the first floor in Kern Graduate Building. Hours are 8 a.m. to 11 p.m., Monday through Friday; 10 a.m. to 11 p.m., Saturday; and noon to 11 p.m., Sunday. The exhibits are open to the public.

Ritenour exhibit

"Art on the Move," exhibited in the Ritenour Health Center on the University Park Campus, will display the painting of Marjut Kauphanen-Katz from Sept. 13 through Oct. 16.

Kauphanen-Katz won the 1996 Penn State Creative Achievement Award from the School of Arts and Architecture. As a Penn State BFA student, she exhibited paintings in four shows and has studied in Finland and the United Kingdom.

Watercolors and boxes

The HUB's Art Alley on the University Park Campus features watercolors by Dorothy Grebos through Oct. 13, and an exhibit of Shaker-style boxes by Steve Strouse from Sept. 17 through Oct. 13.

Grebos' exhibit is marked by a multi-layered complexity and expresses certain themes: sea life and the landscape of New Mexico.

In his Shaker-style box exhibit, Strouse combines his strong interest in the elegance of the Shaker style with the beauty of Pennsylvania hardwoods. The exhibit also includes original designs by Strouse.

The HUB's Art Alley is on the first floor of the Hetzel Union Building and is open during all HUB operating hours.

HUB's Formal Gallery

The HUB's Formal Gallery on the University Park Campus features the watercolor exhibit "Geography of the Unconscious" by Nancy Moore, through Oct. 19.

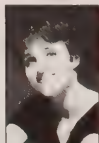
Moore is a professional artist and teacher for 30 years. After she completed her applied and fine arts degree at Penn State, she studied with Ray Loos, Frank Webb, Ed Whitney, Skip Lawrence and Miles Batt. Moore exhibits extensively and among her awards is the Pittsburgh Waterworks, 1994. "Geography of the Unconscious" is her most recent collection.

The HUB's Formal Gallery is on the first floor of the Hetzel Union Building. Gallery hours are noon to 8 p.m., Tuesday through Thursday; noon to 4 p.m. Friday and Saturday; closed Sunday and Monday.

See "Arts" on page 9



Timothy Shafer



Cecilia Dunoyer



On display

This is one of the 57 paintings from the College of Earth and Mineral Science's Steidle Collection on display at the Palmer Museum of Art on the University Park Campus through Dec. 8. The exhibit celebrates Pennsylvania's mineral industries.

Arts

continued from page 8

International artist at HUB Browning Gallery

The HUB's Browning Gallery on the University Park Campus features internationally exhibited artist Shalom Noiman through Oct. 20.

Noiman fuses painting and sculpture to communicate stimulating, thought-provoking subject matter. Born in Prague, Czechoslovakia, in the aftermath of World War II, he says his art is a monument to the graves of his family. Educated at Carnegie Mellon University and Fontainebleau School of Fine Art in France, Shalom completed his master's of fine arts in painting and sculpture.

His art is in numerous collections throughout the world including the Museum of Art in Nice, France; Art Institute of Pittsburgh; Museum of Art, New York City; Paco Das Artes, San Paulo, Brazil; and The Guggenheim Museum.

The HUB's Browning Gallery is on the first floor of the Hetzel Union Building.

Cooking for the Gods

"Cooking for the Gods: The Art of Home Ritual in Bengal" focuses on Hindu ritual activity that expresses the private relationship between the worshiper and the gods in the eastern Indian region known as Bengal. This special exhibition continues at the Palmer Museum of Art on the University Park Campus through Dec. 8.

"Cooking for the Gods" showcases the art used in these home rituals. A home shrine is recreated incorporating

the shiny brass vessels and painted pottery used to present food for the gods' delight.

When Coal was King

Fifty-seven paintings selected from the College of Earth and Mineral Science's Steidle Collection will be on view at the Palmer Museum of Art on the University Park Campus, through Dec. 8.

The paintings are part of an art collection devoted to Pennsylvania's mineral industries that was established by Edward Steidle during his tenure as dean of the College of Earth and Mineral Sciences, from 1928 to 1953.

A majority of the paintings focus either on the mining and preparation of coal, or depict those industries — particularly the production of iron and steel — whose economic success was directly linked to the vast bituminous fields in western Pennsylvania. Other industries represented in the exhibition include oil and natural gas production, stone quarrying, glass manufacturing and railroads.

A free public lecture about the collection, "Coal, Oil and Steel: Edward Steidle and the Art of Industry," will be offered by Eric Schruers, Ph.D. candidate in the Department of Art History, at 3 p.m. Friday, Sept. 13, in the Palmer Lipton Auditorium. Gallery talks: "Some Thoughts on the Steidle Collection," by Patrick McGrady, curator of education, will also be given at 2 p.m. Sept. 20, Oct. 17 and Nov. 1.

Gallery talks begin in the Christoffers Lobby of the museum.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 12

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch concert.

Gallery Talk, 2 p.m., Christoffers Lobby. Glenn Williamson on "Contemporary Art From the Pincus Collection."

Friday, September 13

Department of Geography, 3:30 p.m., 206 Walker. Peter Gould on "The Great Lisbon Earthquake."

Gallery Talk, 2 p.m., Christoffers Lobby. Jennifer Streb on "Highlights of the Palmer Museum."

Saturday, September 14

Gallery Talk, 11 a.m., Christoffers Lobby. Sarah Andrews on "Portraiture in American Art."

Monday, September 16

School of Music, 8 p.m., Recital Hall. Daryl Durran, bassoon.

Tuesday, September 17

Biology, 4 p.m., 8 Mueller Lab. Allen Orr on "The Genetics of Speciation in *Drosophila*."

Wednesday, September 18

Gerontology, noon-1 p.m., 101 HHD East. Cleveland Shiets on "Til Death Do Us Part: Later Life Marriages as Attachment-Caring Systems."

Thursday, September 19

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch Concert. School of Music, 8 p.m., Recital Hall. Norman Spivey/Robert Hatten.

Hillel, 6:30 p.m., Lipton Auditorium. Film: The Last Seven Months of Anne Frank.

Friday, September 20

Gallery Talk, 2 p.m., Christoffers Lobby. Patrick McGrady on "Some Thoughts on the Steidle Collection."

Geography, 3:30 p.m., 206 Walker. Robert O'Connor on "So What If We Are All Environmentalists? The Political and Behavioral Fallout."

Saturday, September 21

Zoller Gallery, Playhouse Theatre. Palmer Museum of Art, Penn State Scenic Institute for the Arts and Humanistic Studies 30th Anniversary Celebration. Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Romeo and Juliet.

SEMINARS

Thursday, September 12

Department of Physics, 3:30 p.m., Osmond Laboratory. Richard Hughes on "Quantum Cryptography."

Ceramics Seminar Series, 11 a.m., 301 Steidle. Xiaoxing Xu on "Processing and applications of oxide superconductor/ferroelectric heterostructures."

Gravity Center, 11:30 a.m., 339 Davey Lab. Eanna Flanagan on "Backreaction in 4D Semiclassical Gravity & the Averaged Null Energy Condition."

Friday, September 13

Department of Physics, 2 p.m., 339 Davey Lab. Richard Hughes on "Antihydrogen Physics."

Palmer Museum of Art, 3 p.m., Lipton Auditorium. Eric Schruers on "Coal, Oil, and Steel: Edward Steidle and the Art of Industry."

Sunday, September 15

Palmer Museum of Art, 3 p.m., Lipton Auditorium. Mary F. Linda on "From the Himalayas to Home: Hindu Temples in America."

Monday, September 16

Gravity Center, 2 p.m., 339 Davey Lab. Erik Martinez on "The Postulates of Gravitational Thermodynamics."

Tuesday, September 17

Architecture, 7:30 p.m., 101 Classroom. Kossman Lecturer: Antoine Predock.

Wednesday, September 18

Professional Women at Penn State, 12:05 p.m., 110 Henderson. Jackie Krasas Rogers on "The Growth of Temporary Employment: What's in Store for Women."

Thursday, September 19

Gravity Center, 11:30 a.m., 339 Davey Lab. John Baker on "Collisions of Boosted Spinning Black Holes in the Close-Slow Approximation."

Centre County Ministerial Association and The Center for Ethics and Religious Affairs, 7:30 p.m., Eisenhower. Anthony Campolo on "Is Jesus a Republican or a Democrat?"

Ceramics, 11 a.m., Steidle. Ahmad Safar on "Designing, Prototyping and Manufacturing of Composite Materials."

Friday, September 20

Economics, 3:30 p.m., 420 Kern Graduate Building. Kaushik Basu on "The Economics of Child Labor."

Philosophy, 4 p.m., 124 Sparks. John E. Smith on "Hocking's Insight into the Individual and the State."

CONFERENCES

Tuesday, September 17

"Scale-up Strategies for Animal Cell Culture," 8:30 a.m., Frear Lab. Through Sept. 20. To register, call (800) PSU-TODAY (800-778-8632).

EXHIBITS

Palmer Museum

"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

"Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

Zoller Gallery

"More is More," Visual Arts faculty collections. Through Sept. 17.

Kern Exhibition Areas

"Lewis, Untangling Strains," Robert Vander Voort. Through Oct. 15.

The pottery of Ian Stanton, Sept. 17 through Oct. 13.

Ritenour Health Center

"Art on the Move: The paintings of Marjuit Kaunhean-Katz," Sept. 13 through Oct. 16.

HUB Formal Gallery

"Geography of the Unconscious," Nancy Moore. Through Oct. 19.

HUB Browning Gallery

"The work of Shalom Noiman, through Oct. 20.

HUB Art Gallery

The watercolors of Dorothy Grebos, through Oct. 13.

Shaker-style boxes by Steve Strouse, Sept. 13 through Oct. 13.

■ Reflects an international perspective

Appointments

Longtime faculty member promoted to department head

Deborah F. Atwater, associate professor of speech communication and African and African American studies, has been named head of the Department of African and African American Studies.

Atwater's research and professional activities are concerned with intercultural communication, ethnicity and rhetoric, and their interface with the worlds of industry, business and labor. She has been a consultant to the Educational Testing Service for the National Teacher's Examination and active in presenting workshops and seminars on communication skills offered through Penn State and Rutgers University for labor organizations. She helped to develop a comprehensive communication program for the 4-H Clubs of Delaware County and served as a communications development specialist for the training and development department of Mellon Bank (East).

A member of the Penn State faculty since 1972, Atwater was an instructor in speech communication at the Penn State Abington-Ogontz Campus until 1976, when she became an assistant professor of speech communication at the Penn State Delaware County Campus. From 1988 to 1995, she was the senior faculty mentor for the Center for Minority Graduate Opportunities and Faculty Development at University Park. In that position she worked with junior minority faculty through activities such as information sharing, mentoring, peer guidance, review and counseling and support of research opportunities. She continues to serve on the advisory board of the center. Her extensive service to the college and University include chairing the Liberal Arts Diversity Committee and, since 1992, serving on the advisory board for the Commission for Women and Center for the Study of Higher Education.

Atwater received her B.S. in secondary education with distinction and M.A. in speech communication from Penn State, and a Ph.D. in intercultural communication from the State University of New York at Buffalo.

Mont Alto names manager of Housing and Food Service

Randy Fulton has been named manager of Housing and Food Service at the Penn State Mont Alto Campus. Fulton was previously the assistant manager of Pollock Dining Commons on the University Park Campus. Before joining Penn State, he served as the food service manager at Temple University's Ambler Campus.

With a bachelor's degree in business administration and human resources from Temple University, Fulton is pursuing a master's degree at Penn State. He is a member of the National Association of College Food Service.

Instructional design specialist joins staff at Mont Alto

Tim Kochery has joined the Penn State Mont Alto staff as an instructional design specialist. Previously, Kochery was employed as a project director of multimedia applications at the University of Minnesota. Other work experience includes working as a quality adviser to the U.S. Department of Agriculture and as an instructor at the University of New Mexico.

Kochery received his B.S. from New Mexico State University and an M.A. in training and learning technologies from the University of New Mexico. He is in the dissertation phase of his Ph.D., which he is pursuing at the University of Minnesota. Kochery has presented numerous research papers to the Association for Educational Communications and Technology and has been a member of this organization since 1991. He also is a member of the International Interactive Communications Society.

At Mont Alto Campus, his duties as an instructional design specialist include offering technical support and training to faculty, helping produce instructional materials and overseeing Project Vision and Project Empower.

College of Liberal Arts department names new head

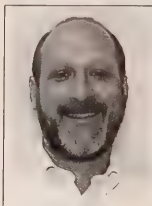
Gerald N. Knoppers, associate professor of religious studies and Jewish studies, has been named head of the Department of Classics and Ancient Mediterranean Studies in the College of the Liberal Arts on the University Park Campus. A member of the Penn State faculty since 1987, Knoppers' research specialization is the Hebrew Bible, ancient Near Eastern religions and early Judaism.

Knoppers recently completed a two-volume study, *Two Nations Under God: The Deuteronomistic History of Solomon and the Dual Monarchies for the Harvard Semitic Monographs Series*. This work analyzes differences between the Masoretic (Hebrew) text of Kings and the Greek (Septuagint) Book of Reims to delineate the stance of the Deuteronomist (the author of the biblical books of Joshua through 2 Kings) toward the history of the United Kingdom and the emergence of the divided monarchy. Author of more than 20 scholarly articles in leading journals in biblical and ancient Mediterranean studies and of numerous reviews, he is preparing a commentary on I and II Chronicles for the Anchor Bible Series.

Knoppers has received a summer fellowship from the National Endowment for the Humanities, a Young Scholars Fellowship from the Catholic Biblical Association and he recently held a Skirball Fellowship of the Oxford Centre for Hebrew and Jewish Studies.



Deborah F. Atwater



Tim Kochery



Katie Lakso

Knoppers received his B.A. degree in philosophy from Calvin College, an M.Div. in Old Testament studies from Gordon-Conwell Theological Seminary and M.A. and Ph.D. degrees with distinction from Harvard University in Near Eastern languages and civilizations.

Mont Alto welcomes coordinator of residence and student life

Penn State Mont Alto Campus welcomes Katie Lakso as coordinator of residence and student life. Lakso's prior experience includes serving as coordinator for residence life at the University Park Campus, working as a youth employment counselor/teacher in her hometown of Huntingdon, Pa., and working as an area director at Juniata College.

With a bachelor's degree in English from Mount Union College in Ohio, Lakso will complete her master's of counselor education/college student personnel in December at Penn State. Her current duties include selecting, training and supervising the residence hall assistants in Mont Alto Hall, where she resides, and planning and coordinating various student activities. She also works as a liaison between the Campus Life office and the offices of campus ministries and volunteer services.

Hazleton names new admissions officer

Rounding out a reorganization of the Office of enrollment management at the Penn State Hazleton Campus is the naming of a new admissions officer. Kevin J. Noly has assumed that position and reports to the director of Enrollment Management. Noly is responsible for development and implementation of recruiting and admissions activities for the campus.

Before joining Penn State, Noly held positions at King's College in Wilkes-Barre and was a member of the King's College New Student Orientation Committee, developing and implementing new student orientation programs. He also served as counselor in the Office of Residence Life, providing personal and academic counseling for resident students and helping to develop educational and social programs for them.

Noly is a graduate of King's College, where he received a B.S. degree in human resources management. He also has participated in a number of King's College continuing education programs in public speaking and in health and safety issues.

Appointments

Department of History appoints new head

Anthony Gregg Roeber, professor of history at the University of Illinois at Chicago, has been appointed professor of early modern history and religious studies and head of the Department of History. Roeber is a specialist in the religious and legal history of early modern North America and Germany.

Roeber's study, *Palatines, Liberty and Property: German Lutherans and Colonial British North America* (The Johns Hopkins University Press, 1993), was a co-winner of the 1993 John H. Dunning Prize of the American Historical Association. His other books include *Faithful Magistrates and Republican Lawyers: Creators of Virginia Legal Culture, 1680-1810* (University of North Carolina Press, 1981); and two institutional histories, *Good and Faithful Servants: A Centennial History of the Lutheran Home and Services for the Aged, Arlington Heights, Illinois, 1892-1992* (Arlington Heights, 1991), and *Lift High the Cross: A Centennial History of Grace Evangelical Lutheran School, 1896-1996* (River Forest, IL, 1995).

Roeber has received numerous grants and awards. Among these have been a National Endowment for the Humanities Fellowship, a German Academic Exchange grant, two grants from the American Council of Learned Societies, two Alexander von Humboldt Fellowships and a National Endowment for the Humanities Chairman's Grant.

Before joining the University of Illinois at Chicago in 1986, he was a member of the faculty of Lawrence University and Princeton University. He received a bachelor's and a master's degree from the University of Denver, and an A.M. and Ph.D. from Brown University.



Anthony Gregg Roeber

Development, alumni relations specialist on board at Hazelton

Elizabeth M. Watkins has been named development and alumni relations specialist at the Penn State Hazelton Campus. Watkins is responsible for professional staff assistance in the forthcoming Campaign for the 21st Century at the campus; will act as liaison on activities to encourage alumni to become more involved in the life of Penn State Hazelton; and will be responsible for organizing an alumni constituent society and assisting the campus Annual Fund for Academic Excellence. She also will assist in planning and implementing the Campus Student/Alumni Mentor Program.

Watkins joined Penn State Hazelton in the Office of Development and University Relations in 1987 as a staff assistant and has been active in numerous campus activities. In 1994, she was one of two recipients of the Staff Assistant Award that recognized outstanding staff support in the University's Commonwealth Educational System for development, university relations and alumni relations activities.

She received an associate degree in business administration from the Penn State Hazelton Campus in 1995, and is pursuing a baccalaureate degree in business management.

Shenango welcomes instructional development specialist

Jeanne Vilberg has joined the Penn State Shenango Campus as instructional development specialist. In the newly created position, Vilberg will provide support to the campus faculty in creating multimedia learning resources in the classroom. The position is part of Project Empower, the University's new initiative for the Commonwealth Educational System, which aims to enhance active and collaborative learning in the classroom through the use of computers and telecommunications technologies.

Vilberg received a bachelor's degree in design from Bowling Green State University, a master's degree in communication from Clarion University, and is pursuing a Ph.D. in instructional systems at Penn State. She was formerly an administrator with Clarion University where she was active in promoting computer technologies in education.

Promotions

Staff

Debra M. Ackard, staff assistant VI in Division of Development and Alumni Relations.

Joann A. Altier, staff assistant VI in Research and Graduate School.

Kent Becker, microcomputer systems consultant in Computer and Information Systems, Center for Academic Computing.

Mark Berger, area representative II at Penn State Harrisburg.

Jan Brightbill, staff assistant V at The Hershey Medical Center.

Lisa A. Broniszewski, data archivist in Research and Graduate School.

Ronald Byron, systems project leader I in Office of Physical Plant.

James Caltagirone, regional field director II in Division of Development and Alumni Relations.

Melissa Casey, staff assistant VI in The Smell College of Business Administration.

Joan Delese, admissions counselor II at Penn State Hazelton Campus.

Karen Delmonico, staff assistant VI in University Libraries.

Jerome Fare, supervisor, Area Services, in Office of Physical Plant.

Kathy Gates, staff assistant VII in Division of Development and Alumni Relations.

Janet Gibson, staff assistant V at Penn State Fayette Campus.

Ray Grove, key control/network coordinator at The Hershey Medical Center.

Jody Heckman, staff assistant VIII in Commonwealth Educational System.

Jean Hoffman, staff assistant VI in Student Affairs.

Amy Johnson, assistant to financial officer II at Penn State Erie, The Behrend College.

Lynn Johnson, director of development in Division of Development and Alumni Relations.

Mary Kelly, coordinator, research funds, in Applied Research Laboratory.

Ellen Laun, DUS programs coordinator at Penn State Fayette Campus.

Earl Martin, supervisor, Area Services, in Office of Physical Plant.

Deborah C. McCafferty, publications manager in Housing and Food Services.

Joel McCamley, senior applications programmer/analyst in Undergraduate Admissions.

Catherine Miller, staff assistant V at Penn State Mont Alto Campus.

Marianne H. Miller, employment specialist/training coordinator in Office of Physical Plant.

Catherine Molloy, clinical head nurse at The Hershey Medical Center.

Sylvia J. Morris, program aide at Penn State Mont Alto Campus.

Bettina Noel, senior technician, Research, at The Hershey Medical Center.

Robert Oakes, human resources coordinator III in Division of Development and Alumni Relations.

David Pearlman, assistant director of student affairs at Penn State Altoona Campus.

William P. Piekielek, research support associate in College of Agricultural Sciences.

Rosanne Pogash, manager, Data Management Unit, at The Hershey Medical Center.

Francis Raymond, documentation specialist in Division of Development and Alumni Relations.

Constance Rogers, staff assistant VI in Continuing and Distance Education.

Susan Royer, staff assistant VI in Health and Human Development.

Shannon Seiner, staff assistant VI in College of Health & Human Development.

Lisa Sharkey, assistant to the financial officer II in College of Engineering.

Alumni Fellows on campus today

The College of Education today welcomes Alumni Fellows into classes and meetings. The Hon. John L. Braxton of the Pennsylvania Court of Common Pleas and a 1966 graduate of Penn State, and Wayne K. Hoy, the Novice G. Fawcett chair in educational administration at The Ohio State University, will be honored as Fellows in ceremonies at University Park.

Braxton has served as a judge in Pennsylvania's Court of Common Pleas since accepting an appointment from Gov. Richard Thornburgh in 1981. Re-elected to his second term in 1991, Braxton has presided in family court since 1985. An adjunct professor in the School of Business and Management at Temple University in Philadelphia, Braxton teaches an undergraduate course in law and society.

A former chairperson of the nation's largest organization of African-American judges, Braxton currently serves on the Pennsylvania Sentencing



John L. Braxton



Wayne K. Hoy

the Department of Educational Administration at Rutgers University. His many honors include the Lindback Foundation Award for Distinguished Teaching from Rutgers University, the Excellence in Education Award from Penn State's College of Education and the Meritorious Research Award from the Eastern Educational Research Association.

The fellows will visit with faculty, staff and students within the college, sharing their expertise and knowledge. The Alumni Fellow Award is the highest honor conferred by the Penn State Alumni Association, and is in association with the College of Education.

Commission. He is an Army veteran, having earned a Bronze Star with First Oak Leaf Cluster for Meritorious Service in Vietnam.

Hoy, who earned advanced degrees in 1962 and 1965 from Penn State, is one of the country's leading research scholars in educational administration. He is former academic dean of academic affairs and former chairperson of

LECTURES

Behrend plans science talks

The Division of Science at Penn State Erie, The Behrend College, is sponsoring a fall seminar series. The scheduled speakers are:

■ **Richard Bertram**, assistant professor of mathematics, on "Electrical Signaling in Nerve Cells and the Marriage of Biology and Mathematics," 3 p.m. Sept. 12, Reed 117.

■ **Pamela Botts**, assistant professor of biology, on "Spatial Pattern, Habitat Characteristics and Temporal Changes in Chironomid Assemblages

in Wetlands on Presque Isle," 3 p.m. Sept. 26, Reed 117.

■ **Mike DiSanti**, astronomy, NASA; 3 p.m. Oct. 10, Reed 117 (tentative).

■ **Bard Ermentrout**, mathematics, University of Pittsburgh; 3 p.m. Oct. 17, Reed 117.

■ **Bill Baxter**, assistant professor of physics; 3 p.m. Oct. 24, Reed 117. For more information, check the WWW site: http://euler.bb.psu.edu/science/seminar/fall_96.html or call (814) 898-6105.

Business lecture series continues

The Current Issues in Business Lecture Series at the Penn State Harrisburg Eastgate Center continues Oct. 9 at noon with a look at "Organizational Culture and Workplace Participation."

Guest presenter **David Morand**, assistant professor of management at Penn State Harrisburg, said "programs of employee involvement and workplace participation are recognized as key to increasing productivity and enhancing organizational effec-

tiveness in today's complex business environment. Many such programs, however, falter or fail."

Morand's presentation will analyze and discuss how "organizational culture" plays a vital role in these types of programs.

The lecture series, sponsored by the Penn State Harrisburg School of Business Administration, is free to the public. For registration or information, contact the Eastgate Center at (717) 772-3590.

Dean to examine trends in health promotion

Barbara Shannon, dean of the College of Health and Human Development, will assess trends in the field of health promotion and disease prevention during a noon presentation Oct. 2 at the Penn State Downtown Center in Harrisburg.

Shannon's presentation will also focus on the college's role in the evolving health arena through research, teaching and outreach programs. A question-and-answer session and reception will follow her presentation.

The program, which is free to the public, is sponsored by the Downtown Center and is one of a series of lectures on public policy issues. For more information, contact the center at (717) 783-0433.



Barbara Shannon

Learn how to sell your great works

Do you have a compelling story of love and adventure to sell, but no clue how to sell it? Aspiring writers may attend the first romance and fiction conference "A Passionate Journey: Writing into the New Millennium," Nov. 7-8 at The Penn State Scanton on the University Park Campus.

Workshop presenters include Lock Haven native **Sandra Hill**, author of four novels, and the recently published **Trish Jensen** of Reedsville. The keynote speaker will be **Mary Jo Putney**, best-selling author of *Shattered Rainbows*, the culmination of the award-winning *Fallen Angels* series.

At this conference, romance and fiction masters

will share what editors and publishing houses are purchasing and will be purchasing. Take advantage of this opportunity to meet agents and dealers. Learn how to write and market your romance and fiction for the publishing marketplace of today and tomorrow.

For more information about program content, please contact **Lisa Lyles**, conference planner, by phone at (814) 863-1738, or by e-mail at Conferencel2@cdc.psu.edu

For registration information call (800) PSU-TODAY (778-8632), or visit the Web site at: <http://www.cdc.psu.edu/C&F/1/WritingRomance/>

Lecture examines education options

Is a four-year college education the answer for all Pennsylvania youth?

Kenneth Gray, professor of vocational education, will address these questions and others in a noon presentation

Sept. 25 at the Penn State Downtown Center in Harrisburg.

As part of his presentation, Gray will discuss the need for greater technical education in Pennsylvania and why a bac-

calaureate degree is not the only way to achieve success in a career. A question-and-answer period will follow the discussion, which is free to the public. For information, call the Downtown Center at (717) 783-0433.

Curator to discuss challenging traditional Jewish identities

Norman Kleeblatt, Susan & Elihu Rose curator of fine arts of The Jewish Museum in New York, will discuss challenging traditional Jewish identities at 8 p.m. Thursday, Oct. 31, in the Palmer Lipson Auditorium on the University Park Campus.

Kleeblatt has developed the critically acclaimed exhibition "The Dreyfus Affair: Art, Truth and Jus-

tice" and has co-organized "Painting a Place in America: Jewish Artists in New York, 1900-1945." He is the recipient of the Henry Allen Muse prize and the National Jewish Book Award for his publications.

The Joanne and Paul Tanker Lecture is free to the public. It is sponsored by the Jewish Studies Pro-

Senator to visit University to speak, accept award

State Sen. **Hardy Williams**, who serves the 8th District including Philadelphia, will be on campus Wednesday and Thursday, Sept. 18 and 19, to share his experiences with faculty, staff and students. Sen. Williams also will be honored with the Nittany's Pride award for his leadership and service to the community.



Hardy Williams

Sen. Williams, a Penn State graduate, will receive the Nittany's Pride: The Journey Back award, sponsored by Attorney Edgar Snyder in cooperation with Penn State's AT&T Center for Service Leadership, a division of Student Affairs.

Williams has distinguished himself as a champion of youth, senior citizens and the poor with special interests and leadership in public health issues.

He is chair of the Senate Public Health and Welfare Committee. In addition to his responsibilities as a senator, Williams has paved the way for other African Americans to enter

government, and in 1972 organized the Legislative Black Caucus. He continues to speak out against injustice and attacks on African American families, initiating such programs as the Crisis Intervention Network, Black Family Services Inc., Blacks Networking for Progress Inc. the Delaware Valley Ecumenical Council and the African American Delaware Valley Port Corp.

At Penn State, Williams, who was the first African American player on the basketball team, went on to captain the championship teams of the early 1950s. He graduated in 1952 with a bachelor of science degree in political science and history and received a doctorate of jurisprudence in 1957 from the University of Pennsylvania Law School.

He was elected to the Pennsylvania House of Representatives for the 191st Legislative District and served until 1982 when he was elected to the Pennsylvania Senate. Williams also served on the Penn State Board of Trustees from 1972 to 1975.

gram, Joanne and Paul Tanker, the Palmer Museum of Art and Penn State Hill.

Kleeblatt also will be speaking at 10 a.m. Friday, Nov. 1, in the Department of French, 312 Burrows Building on "The Body of Alfred Dreyfus: A Site for France's Displaced Anxieties of Masculinity, Homosexuality and Power."

More Lectures

Employment topic of brown-bag talk

"The Growth of Temporary Employment: What's in Store for Women," a brown-bag lunch meeting presented by Professional Women at Penn State, will be held beginning at 12:05 p.m. Wednesday, Sept. 18, in room 110 Henderson Building (Living Center) on the University Park Campus. Jackie Krasas Rogers, assistant professor of labor studies and industrial relations, will speak.

Professional Women at Penn State is a grass-roots group coordinated by University women in which participants can develop and maintain a communications network and serve as a resource for other Penn State women.

For more information about the group, visit its Web site at URL: <http://rudolph.la.psu.edu/~pellenb/jrups/welcome.html>

Elders to speak about health care

Dr. Jocelyn Elders, a pediatric endocrinologist who served as the first African American Surgeon General in 1993, will speak about health care and personal responsibility at 8 p.m. on Wednesday, Sept. 18, in Eisenhower Auditorium.

Her talk is part of the Distinguished Speakers Series presented by the Programming Coordination Board, and is co-sponsored by Health Promotions Education, The Center for Women Students, the College of Health and Human Development and Black Caucus.

Dr. Elders is now at the University of Arkansas Medical School.

Kossman Lecturer to give initial talk

Internationally acclaimed architect Antoine Predock will speak at 7:30 p.m. Tuesday, Sept. 17, in 101 Thomas Building on the University Park Campus. The event will mark the beginning of Predock's term as the Kossman Lecturer in the Department of Architecture for the 1996-97 year.

Predock has gained a devout following for his beautiful and poetic response to place.

Religion focus of Oct. 3 lecture

Gary Pavela, director of judicial programs at the University of Maryland, College Park, will speak on "Legal Implications for Religion on Campus: Post-Rosenberger" at 7:30 p.m., Oct. 3, in 101 Kern Building on the University Park Campus.

Clay Calvert, assistant professor of journalism in the School of Communications and a member of the Pennsylvania Center for the First Amendment, is the faculty respondent.

The speech, part of the Values in the Community series celebrating the Eisenhower Chapel's 40th anniversary, is sponsored by the Center for Ethics and Religious Affairs and is free to the public.

Life Sciences Consortium offers seven new graduate study options

Penn State is on track and moving ahead with its innovative approach to enhancing the life sciences through the Life Sciences Consortium (LSC). President Graham B. Spanier told those gathered at an afternoon reception Sept. 9.

The LSC was approved by the University Faculty Senate and the Trustees this spring and, with funding in place, came into official existence on July 1.

After an extensive internal and external peer review process, seven new options for graduate study were selected from among 13 final proposals for inclusion in a new Integrative Biosciences Graduate Degree Program being proposed to the Graduate Council this fall.

The first group of options, which the LSC anticipates will also be offered within existing disciplinary degree programs, include biomolecular transport dynamics, cell and developmental biology, chemical biology, ecological and molecular plant physiology, molecular medicine, neuroscience and nutrition sciences. More new research groups and graduate study options are expected to emerge in the future.

LSC graduate education will emphasize active, group learning approaches, career planning and student internships in organizations outside the University. Plans also call for LSC to co-fund 50 new life science faculty members at the University Park and Hershey campuses.

Spanier called the LSC plan, which integrates life science research and teaching across disciplines and colleges at Penn State, "an aggressive, forward-looking approach that recognizes the important role these areas will play in American life and commerce in the years ahead."

The LSC structure is unlike any other at Penn State. It is both intercollegiate and interdisciplinary but it is not an academic unit and has no faculty lines. Rather, the LSC provides financial and administrative support for cooperation, interdisciplinarity and innovation in research and teaching among the life science units on the University Park and Hershey campuses.

Policy and decision making for the consortium is the joint responsibility of a faculty steering committee and an executive committee. Nina Fedoroff, who chaired the interim committee which piloted LSC's establishment, is



Judith Bond



Nina Fedoroff



C. Robert Matthews

now LSC director and chair of the faculty steering committee. Rodney Erickson, dean of the Graduate School, is chair of the executive committee which includes the deans of the participating colleges, Fedoroff and the IRP director.

Fedoroff, who holds the Willaman Chair of life sciences and is director of the Biotechnology Institute, joined the Penn State faculty in 1995. A specialist in plant molecular biology and genetics, she is the recipient of a National Institutes of Health Merit Award, a member of the National Academy of Sciences, an editor of the Proceedings of the NAS, a trustee of BIOSIS, a director of the Sigma-Aldrich Chemical Co., and chair of the advisory committee to the National Science Foundation biological directorate.

Spanier also announced that Judith Bond, professor and chair of biochemistry and molecular biology in the College of Medicine, and C. Robert Matthews, professor of chemistry and Eberly Family professor in biotechnology, have agreed to serve as co-directors for graduate education for the consortium.

Bond, who joined the Penn State faculty in 1992, was also recently named assistant dean for graduate education and the MD/PhD program at the College of Medicine. A specialist in research on the action of enzymes, called proteinases, she holds an NIH Merit Award, is a council member of the Association of Medical and Graduate Departments of Biochemistry and of the American Society of Biochemistry and Molecular Biology.

Matthews is director of the Center for Biomolecular Structure and Function and co-principal investigator on a National Science Foundation training grant, in addition to his academic appointments. A specialist in the mechanisms of protein folding, he is associate editor of the journal *Proteins*, and a member of the editorial board of the *Journal of Protein Engineering*.

Behrend plastics center funded through 2000

The Plastics Technology Deployment Center at Penn State Erie, The Behrend College, will receive \$2.1 million in federal funds to continue operations through the year 2000.

The center was created in 1994 with a \$2.5 million federal Technology Reinvestment Program grant. The program, designed to bring Cold War military innovations to the civilian marketplace, will end this year; the National Institute of Standards and Technology provided the new funding.

The center, operated in partnership with CAMP Inc. (formerly the Cleveland Advanced Manufacturing Program), offers free and fee-for-service manufacturing, engineering and business support to a target market of

1,800 small and mid-size plastics-related manufacturing firms in 14 counties of northwestern Pennsylvania and 22 counties of northeastern Ohio.

Since its inception, the center has served more than 600 plastics processors, designers and tool and die makers.

Based on data collected from clients, the center estimates its economic impact on the region to be slightly more than \$14 million.

The center is one of 58 National Institute of Standards and Technology Manufacturing Extension Partnerships around the country, but is the only partnership dedicated to a single industry.

Faculty/Staff Alerts

Open house

For the second year in a row, President Graham B. Spanier is planning to host an "open house" and tour of his office faculty staff and students. The Old Main Bell Tower will also be open. The event is set for 4 to 5:30 p.m. Friday, Sept. 27. Light refreshments will be served.

Applications due

Applications for the Institute for the Arts and Humanistic Studies Faculty Research Fellowships for which research or creative work will be accomplished between January and June 1997 are due at Hilseng Cottage by 5 p.m. on Oct. 7. For information or a copy of the Research Fellowship guidelines, call the institute at (814) 865-0495.

United Way gearing up

United Way exists because people care for and want to help others in need. To make the best use of contributor's dollars, United Way holds one campaign each year instead of each agency conducting its own campaign which could result in numerous appeals in your community. A contribution through the University's payroll deduction plan will directly benefit families and friends in your area. The annual fall campaign begins soon.

News in Brief

Catholic fellowship group to meet

The first fall semester meeting of the Penn State Catholic Faculty/Staff Fellowship Group will be held at noon Monday, Sept. 16, in 212 Eisenhower Chapel. Items to be discussed include the formation of a student mentoring program, the planning of meeting topics and agendas for the remainder of the semester. All faculty and staff may attend.

Programs for children

The College of Health and Human Development will offer a free program in basic movement skills and games for children ages 5 through 8, beginning Oct. 8.

The program will be held in Room 126 White Building on the University Park Campus from 3:45 to 4:25 p.m., Tuesdays, through Nov. 12. Registration is scheduled for 3:35 p.m. on Oct. 8 in Room 126, White Building.

Upcoming programs

Fresh Start Smoking Cessation: The American Cancer Society's Fresh Start smoking cessation program teaches participants how to deal with smoking as a chemical addiction, a habit and a psychological dependency. Meets from 12:30-2 p.m. Sept. 23, 25, 30 and Oct. 2, in 410 Rider Building. Cost: None.

Cart Smart Shopping Tour: Learn how to find your way through the grocery store "maze" so that you can be adept at choosing the lower-fat items in each aisle. Meets 4:30-5:45 p.m. Wednesday, Sept. 25, at the North Athletes Bi-Lo (Meet at the snack bar area). Cost is \$5, reimbursable to HMO participants.

To register, contact Jan Hawbaker at (814) 865-3085 or e-mail jh33@oas.psu.edu.

Renaissance Woman to be honored

Suzanne P. Paterno, an active local volunteer for such causes as the Pennsylvania Special Olympics, United Way and the University Libraries, will be honored as the Renaissance Woman of the Year at the 20th annual Renaissance Scholarship Fund dinner. The event will be held Nov. 13 at the Nittany Lion Inn on the University Park Campus, beginning with a 6 p.m. reception and continuing with a 7 p.m. dinner.

The dinner, held each year since 1977, raises funds for Penn State's Renaissance Scholarships which are awarded to academically talented students who have financial need. Each dinner honors a University or community leader and funds are used to endow scholarships in the honoree's name.

Paterno's philosophy, "if you've been given a talent or ability, then you must help as many people as you can as you go through life," has led her to help many Penn State students better their lives through education. Not only does she tutor students in English, she also helped establish in 1990 the Summer Institute for Academic Achievement—a program that offers minorities additional preparation for college-level work and familiarizes them with the University.

As a board member with the Pennsylvania Special Olympics since 1991, she has co-chaired the opening and closing ceremonies of the Summer Games for several years and chaired the outreach, VIP and fund-raising committees.

In 1995, the Penn State Alumni Association honored her with the Lion's Paw Award, which is given annually to individuals who have contributed notable service to the University. Her contributions include helping to establish the College of the Liber-



Suzanne P. Paterno

her husband, Penn State head football coach Joe Paterno, the campaign that raised \$14 million for an expansion to Pattee Library and to support an endowment. The Penn State Board of Trustees voted to name the expansion the Paterno Library in honor of the couple's efforts. In 1994, she was honorary chair of the local United Way campaign and she co-chaired its "Day of Caring" in 1995 and 1996. She is a 1962 graduate of Penn State with a bachelor's degree in arts and letters. The Paternos have five children.

Since the Renaissance Fund's inception in 1969, nearly \$3 million in private contributions has been raised to help make higher education possible for 1,235 students. During the 1995-96 school year, 263 scholarships were awarded.

For more information on the Renaissance dinner, contact Barbara Sarra in the University's Office of Annual Giving at (814) 863-2052.

Monument hits century mark

There weren't any party hats, but there was cake and Pepsi on Sept. 6 to celebrate the 100th birthday of the Obelisk, the oldest monument on the University Park Campus and the symbol most closely associated with the College of Earth and Mineral Sciences.

The Obelisk, located along the mall between Willard and Sackett buildings, was erected in 1896. That was the same year the School of Mines, which later became the College of Earth and Mineral Sciences, came into existence.

In the 1890s, Pennsylvania led the nation in value and quantity of building stone. The Obelisk is a polylith made up of 281 stones gathered from 139 quarries, most in Pennsylvania. The stones are arranged in geological order so that the oldest stones are near the bottom and the youngest near the top. The blocks were intended as samples of structural stone, then a major industry in the Commonwealth. A handbook for the use of the building stone industry and its customers was researched and prepared using experiments on the Obelisk stones.

Thin sections of the various stones were examined by microscope and chemical and strength tests were performed. The Obelisk was also intended to allow students to monitor the effects of weathering on the different stones.

Also in celebration of the centennial of the College of Earth and Mineral Sciences, "When Coal was King" paintings from the Steidle Collection will open on Sept. 10 at the Palmer Museum of Art and run through Dec. 8.

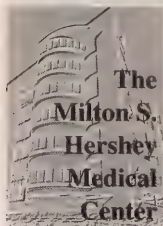


Happy birthday

The Obelisk was erected the same year the School of Mines, now the College of Earth and Mineral Sciences, was founded. Both celebrate their centennial this year.

Photo: Greg Grieco

News from ...



Joint project looks at "Death in America"

The Department of Humanities at The Hershey Medical Center will work closely with Hospice of Lancaster County to create a set of case narratives describing the experiences of dying patients, their families and health-care providers as they interact throughout the patients' illnesses.

The project will be made possible through a competitive research grant to the department—one of nine awarded among approximately 300 applicants—by the Open Society Institute's Project on Death in America.

"Our main objective of the narratives," David Barnard, professor and chair of humanities, said, "will be to tell the story of patients and families receiving care in hospice settings, particularly the feelings and perceptions of givers and receivers of care. We will look at death and the care of dying patients as part of the human experience. This will include talking with doctors, nurses, social workers and volunteers about their feelings as they give care to these very sick people."

The project, done in collaboration with McGill University and the Royal Victoria Hospital, both in Montreal, grew out of Barnard's sabbatical there in 1994-95.

The research will also involve tape-recorded interviews with patients, families and care-givers, and journals kept by care-givers—will continue until about a year after patients die.

A biopsy needle is deftly maneuvered into a hollow cone against a patient's skull. With a gentle push and some resistance, Dr. Thomas M. Krummel feels a soft pop as the needle penetrates the outer skull. Another louder pop tells him he has pierced the inner skull. With a bit more exploration, he eventually "feels" a brain tumor.

"It's truly awesome," Krummel, the John W. Oswald professor and chair of surgery at The Hershey Medical Center, said.

The tumor was actually a CT scan on a computer screen, and Krummel's biopsy needle was mounted in a thimble on a robotic arm. Someday, Krummel believes, this sort of virtual operation may be business as usual. Surgeons, computer scientists and engineers at Hershey, the University Park Campus and in Boston are combining their expertise in hopes of developing virtual surgical training techniques as part of routine medical training.

The key to the project is a two-handed, force-feedback device controlled by a desktop computer system called the PHANTOM, operating on a fast Intel Pentium processor. Specially designed software processes signals from motion sensors on the PHANTOM's mechanical arm and then "tells" the motors how much



Thomas M. Krummel

pressure to exert on the thimbles in three dimensions.

Krummel knows he's aiming high. He likens surgical training on the PHANTOM to aviation training on a flight simulator. The PHANTOM is being developed at Penn State as a surgical training system that provides for surgeons what flight simulators provide for pilots—a way to acquire skills safely, efficiently and inexpensively. But instead of sitting in a simulator staring at an imaginary world, a surgeon will simply don a headset through which he can see a virtual patient. Krummel envisions surgeons eventually rehearsing on "virtual patients" the night before they perform the actual surgery in the operating room.

"Now we do an operation slowly so the students at all levels learn how to do it,"

Krummel said. "But the operating room costs about \$1,000 an hour. An hour of teaching per operation, with 13,500 operations per year, creates educational costs of \$13.5 million per year that no one wishes to reimburse."

Cost, he said, is the driving factor for using the PHANTOM for medical education and training. Insurance companies are increasingly unwilling to pay higher patient-care costs associated with medical education.

Other sound reasons exist for Krummel's enthusiasm over the PHANTOM. He said, "We learn operations by doing them. The first incision we make is on a human being, and unlike learning to ride a bicycle, we're not allowed to fall off, to make mistakes. Yet mistakes afford another authentic learning experience."

The equipment doesn't come cheaply. Though the PHANTOM itself is relatively inexpensive, about \$20,000, "with the computers to drive it, programming time and other costs," Krummel said, "we've probably invested much more. However, the reality is we can't afford not to invest, with the staggering, indirect, educational costs which threaten our clinical competitiveness."

Krummel hopes Penn State surgeons will train on the PHANTOM within two

years and that it will help credentialing surgeons. "Written tests for credentialing test cognitive skill, but to think that that really tests performance is simplistic. How do you determine if someone is capable of performing an operation?"

Krummel is collaborating on the PHANTOM with scientists and inventors J. Kenneth Salisbury and Thomas Massie of M.I.T.'s Artificial Intelligence Laboratory. The two have formed SensAble Devices Inc. in Cambridge, Mass., to develop and market the device.

SensAble Devices sells only the hardware, and the PHANTOM's arm isn't much good without the corresponding software. That's where Boston Dynamics Inc. (B.D.I.) and Penn State's Applied Research Laboratory enter the picture.

B.D.I., headed by former M.I.T. mechanical engineer Marc Raibert, "puts all the pieces together," Kent Eschenberg, a simulation/visualization expert with the Applied Research Lab at University Park, said. "B.D.I. takes the basic robot."

PHANTOM, combines it with interface hardware, develops the software that does the real-time adjustment and combines this with more complex software."

Surgery to aid cerebral palsy patients now available

A surgical procedure to help children with cerebral palsy is now available at The Hershey Medical Center, according to Dr. Dennis Johnson, professor of neurosurgery and pediatrics.

The procedure, known as selective posterior rhizotomy, is intended to reduce spasticity (abnormally tensed muscles), and therefore may improve upper body function and enhance patients' ability to crawl or walk.

"This is a new or experimental procedure," Johnson said. "The surgical procedure cuts certain sensory nerves which are creating too much noise in the system.



Dennis Johnson

However, there is no reduction in the quality of sensation," he said.

Patients 3 to 5 years old

who have not undergone previous procedures are ideal candidates for the surgery.

Laurie Fisk, of East Smithfield, Bradford County, whose 3-year-old daughter Jenny recently underwent the procedure, said, "This offers us hope. If we didn't do anything, Jenny would never walk. But once she has learned to use her muscles instead of her spasticity, she may be able to walk." Fisk said, Jenny's 6-year-old brother, Kevin, is looking forward to being able to chase his sister around the house.

With all patients who undergo the surgery, rehabilitation is an important part of the follow-up process to

help the child re-learn to use muscles for movement, rather than using spasticity, which has been reduced. Children generally remain in inpatient rehabilitation for four to six weeks following the surgery.

The Hershey Medical Center is the only facility between Philadelphia and Pittsburgh providing selective posterior rhizotomy.

Cerebral palsy is a term used to describe a group of disorders affecting body movement and muscle coordination resulting from damage to the brain suffered at or about the time of birth.

About one child in 1,000 is affected by cerebral palsy.

ATHLETICS

A regular column provided by Intercollegiate Athletics

New coaches named

Penn State athletics has added new assistant coaches in women's swimming and women's lacrosse. **Fran McDermid** succeeds **Mary Bolich**, who left to become head coach at the University of Iowa. McDermid was a nine-time All-America and Penn State's first individual champion in any sport (100- and 200-meter freestyle). McDermid had been assistant coach and assistant director of aquatics at Villanova University.

Another Penn State graduate, **Karen (Schellenbach) Teufel**, was selected to assist with women's lacrosse. A member of the U.S. women's lacrosse squad from 1978-82, Teufel played four seasons of lacrosse and three years of field hockey as an undergraduate. She was the varsity girls lacrosse coach at Harborfields High School in Greenlawn, N.Y., for the past three years.

Nittany Lions on TV

There will be television coverage of Penn State's next two football games. Creative Sports will air the Northern Illinois and Temple games with scheduled kickoff times of 12:20 and 12:07 p.m., respectively. The Creative Sports telecasts will air in the State College market on WTAJ (Channel 10, Altoona).

All-American

Joe Roemer, a finance major and member of the Penn State men's gymnastics team, has been honored for the second year in a row as an All-American Scholar-Athlete by the College Gymnastics Association. Forty-eight individual gymnasts earned that distinction by achieving at least a 3.5 grade point average while attaining a minimum NCAA scoring average of 8.5 during the 1996 season.



New look

Joan Manos, left, helps an early-morning customer at Otto's Cafeteria in Kern Building on the University Park Campus. The eatery is celebrating its grand re-opening after summer renovations with expanded hours. Otto's is open Monday through Friday from 7 a.m. to 6 p.m., with the coffee shop open weeknights until 8 p.m.

Photo: Andrea Hurley

"Parents and Families Day" set for Sept. 28

Parents and families of Penn State students are invited to attend a full day of tours, open houses and educational programming on Saturday, Sept. 28, at University Park. "Parents and Families Day," an annual event held by the Alumni Association, draws families from all over Pennsylvania and neighboring states for an informative and fun-filled day of special events.

Educational seminars begin at 10 a.m. in the HUB Assembly Room with a session on Penn State's ranking and reputation, and continue with presentations on transition issues at 11 a.m., financial aid at 1 p.m. and a session on "Severe Winter Weather, Tornadoes and Hurricanes: New Climate Trends or Media Hype?" at 2:15 p.m. in 112 Walker Building.

An Information Fair also will be held simultaneously from 10 a.m. to 3 p.m. in the HUB Ballroom, incorporating both campus and town organizations and vendors. Other open houses include the Old Main Bell Tower from noon to 5 p.m., the Breazeale Nuclear Reactor from 11 a.m. to 2:30 p.m. and the Multicultural Resource Center from 3:30 to 5 p.m. in 122 Grange Building.

For those who wish to see the campus, bus and walking tours are scheduled from 11 a.m. to 2 p.m. Bus tours will take approximately 45 minutes, and will make a special stop at The Bryce Jordan Center. In addition, two tours have also been arranged to visit Penn State's agricultural facilities.

These bus tours will depart from the Agricultural Administration Building at 1 and 2 p.m. A schedule of times and campus maps will be available at the HUB desk.

Parents and families are invited to join students in the residence halls for lunch and dinner for \$2.50 and \$4.50 respectively. For those staying through the evening, "Synergy: The Student Talent Show," will be presented in Schwab Auditorium at 8 p.m. Tickets for Synergy can be acquired by calling (800) ARTSTIX. Stargazing in Davey Laboratories is also an option from 8:30 to 10:30 p.m.

For more information, please call (814) 863-9424.

For the Record

■ A photo caption on page 12 of the Sept. 5 *Intercom* contained incorrect information. The photograph showed a Farm Operations worker mowing hay on a University Park Campus field.

■ **Jean Barczak**, staff assistant for the Women's Studies program, was misidentified in a story about the Coordinating Council of Professional Women at Penn State on page 12 of the Sept. 5 *Intercom*. In addition, chair **Anne Stover**, staff assistant in the College of Earth and Mineral Sciences, and associate member **Anne Stokes**, staff assistant in the College of Health and Human Development, were omitted from the story.

PENNSTATE INTERCOM

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University again tops list of colleges receiving SAT scores

By GARY W. CRAMER
Public Information

Penn State once again leads all colleges and universities nationally in receiving Scholastic Assessment Test (SAT) scores from college-bound high school seniors, according to the College Board. Figures for 1995-96 show that a total of 53,238 students that expected to enter college this fall sent their SAT scores to Penn State compared to 51,042 for the next most popular institution, the University of Cali-

fornia at Los Angeles. Other leading university recipients of scores include the University of California at Berkeley (43,963), Boston University (41,147), and the University of Texas at Austin (40,686).

Last year, the College Board regional office in Philadelphia reported Penn State in front after receiving 46,746 scores.

The SAT, taken by 1.15 million students in the last year, is one of two tests widely used as an indicator of a student's preparedness for higher education.

See "SATs" on page 3

SAT Rankings

Penn State leads the nation in the number of Scholastic Assessment Test scores it receives from college-bound high school seniors.

1995-96	
Penn State	53,238
University of Calif.	51,042
at Los Angeles	
University of Calif.	43,963
at Berkeley	
Boston University	41,147
University of Texas	40,686
at Austin	

Faculty Senate to consider resolution on alcohol abuse

By ALAN JANESCH
Public Information

The University Faculty Senate last week heard a report that painted a disturbing picture of the ways excessive alcohol consumption affects students' lives and academic performance, and agreed to consider a resolution urging Penn State faculty to eliminate practices that appear to condone or enable the abuse of alcohol or other drugs.

On another matter — faculty salaries — the Senate accepted a report that said "unchecked growth" in faculty salary differentials damages faculty collegiality. The Senate urged the University administration and the colleges to adopt several new principles and procedures on faculty raises.

The proposed resolution on alcohol abuse, from the Senate's Committee on Student Life,

See "Senate" on page 2

Trustees updated on action spurred by results of Faculty/Staff Survey

Individuals, committees and units throughout the University are working with the results of the 1996 Faculty/Staff Survey to try to improve the way things are done at Penn State.

Susan Welch, dean of the College of the Liberal Arts and chair of the University Council on Continuous Quality Improvement, provided a report to the Board of Trustees on Sept. 6.

The council is working with deans and other executives to facilitate the exchange of best practices and to coordinate and implement follow-up activities.

Survey results were distributed to departments earlier this year and the University provost asked executives to include follow-up activities in strategic plans due in January 1997. Retreats were held in some areas and there have been discussions among human resource representatives and dean's councils, as well. The Office of Human Resources also is planning an Intercom insert in October on communication and intra-unit relationships.

See "Survey" on page 3

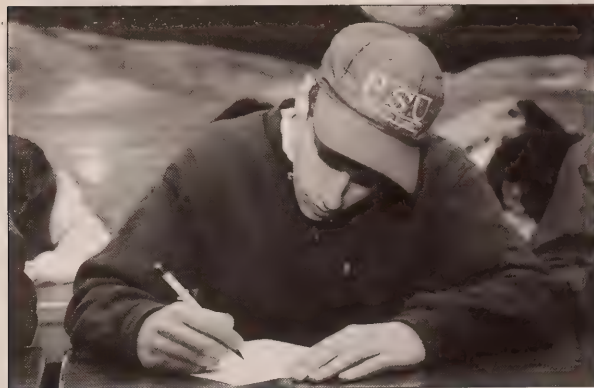


Photo: Greg Grieco

Popular destination

More college-bound students sent their SAT scores to Penn State in the last academic year than to any other college or university. Penn State received scores from more than 53,000 students who expected to enter college this fall.

Inside



New program

The Faculty Staff Club is sponsoring a new National Issues Forum. For details, please see the story on page 2.



Research

Are you a perfectionist? That may not be such a bad thing, according to researcher Robert B. Stanley. For details, please see page 15.

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Faculty Staff Club introduces speakers series

The lunchtime National Issues Forum will be broadcast live on WPSU radio

The Faculty Staff Club will launch a new endeavor in October with the inauguration of a monthly speaker series that will be carried throughout Pennsylvania on WPSU radio.

The lunchtime series at the Nittany Lion Inn, the Penn State National Issues Forum, is sponsored by the Penn State Bookstore.

"This is another opportunity for the Faculty Staff Club to provide a service to the University and local community," said George Bugby, executive secretary of the Faculty Senate and a member of the committee planning the speaker series.

"Our lunchtime series will help keep you in tune with the issues and debates that impact the environment where we live, study and work," he said. "Our committee worked hard during the past six months to design a speaker series we believe will be of interest to a broad mix of faculty, staff and others in this community."

Three speakers have been scheduled for the fall semester, including:

■ **James J. Duderstadt**, president emeritus of the University of Michigan, will speak on Oct. 8.



■ **John J. Curley**, chairman, CEO and president of Gannett Co. Inc., chairman of the News-
per Association of America and founding editor of *USA Today*, will speak on Nov. 22.

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■ **Gary Gallagher**, professor of American history and an expert on the preservation of Civil War battle sites, will speak on Dec. 4.

The series will include a buffet lunch starting at 11:30 a.m., a speech approximately 30 minutes long and then about 15 minutes of questions and answers from the audience. The format will be similar to the one used by the National Press Club in Washington, D.C., which can often be heard on WPSU radio.

Tickets for the event are \$10 and reservations can be made by mail or by stopping by the Faculty Staff Club office at 110 HUB. For more information, call (814) 865-7590.

Members of the National Issues Forum Committee include:

Tom Bauer, John A. Brighton, George Bugby, Sandy Edwards, Peter Jurs, Bill Mahon, Eugene Melander, Katie O'Toole, Jim Purdum, Jim Ratcliff and Karen Wagner.

Members of the committee are interested in receiving suggestions for speakers for the spring semester.

Senate

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acknowledges that excessive alcohol consumption "negatively impacts the learning environment. We resolve that faculty should play a role in influencing student behavior by eliminating practices which appear to condone, encourage or enable alcohol or other drug abuse."

The resolution was introduced by the committee at the Senate's Sept. 10 meeting. Under Senate bylaws, the resolution will sit on the table for 30 days and be brought up for a vote at the Senate's Oct. 22 meeting.

The resolution doesn't specifically cite any practices that seem to condone alcohol abuse, but the discussion of the committee's report indicated that such practices include not taking attendance at Friday classes and not making assignments that are due in class on Fridays.

The committee's report says that surveys undertaken in April 1995 and March 1996 by the Office of Student Life show that the results of excessive alcohol consumption include serious arguments, incidents of shoving and hitting and more serious assaults.

The committee report cited Penn State responses to a college alcohol study done by the Harvard School of Public Health in 1993. According to the committee report, 29.5 percent of the 146 students responding to the survey said they had participated in "binge drinking" on three to five occasions. ("Binge drinking" is defined as consuming five or more drinks in a row for men, four or more in a row for women.)

About 16 percent of the respondents reported bingeing twice during the previous two weeks, and 2.7 percent said they had bingeed 10 or more times within the previous two weeks.

The Senate also heard from Sharon Entenberg, Undergraduate Student Government president, who on behalf of several student groups urged the University to initiate University-wide freshman seminars that comprehensively address the related problems of excessive alcohol consumption, campus safety and inappropriate behavior in the community.

"We resolve that faculty should play a role in influencing student behavior by eliminating practices which appear to condone, encourage or enable alcohol or other drug abuse."

Proposed resolution on alcohol abuse from the Senate's Committee on Student Life

Earlier this month, in his State of the University speech (*Intercom*, Sept. 12, p. 1), President **Graham B. Spanier** identified excessive alcohol consumption as part of the most fundamental challenge facing colleges and universities today.

On the issue of faculty salaries, the Senate's special Subcommittee on Faculty Compensation presented its report on differences in faculty compensation among academic units and salary compression within academic units.

The subcommittee found that the University "has paid inadequate attention to the cumulative effect" of salary levels established upon hiring and the percentage-based increases that lead to wide disparities in salary levels. "The unchecked growth of salary differentials, the University equivalent of a 'winner-take-all society,' is detrimental to faculty collegiality and ultimately will be detrimental to the goals and performance of the institution."

The special subcommittee was established in June 1995 to investigate the current status of faculty compensation at Penn State and, if necessary, recommend ways to change University policies. In its report, the special subcommittee was also responding to a charge from the Senate earlier this year to develop a minimum salary plan "patterned after" that of the State System of Higher Education (*Intercom*, Feb. 8) and to develop specific recommendations before the end of 1996.

Recommendations to the administration and/or the colleges include:

— The central administration should continue on an annual basis to collect data on salary distribution at other institutions and make efforts to ensure that Penn State faculty are paid competitive salaries.

— Colleges should examine entry-level salaries as well as increases awarded for promotions, with an eye to its effects on the long-range development of faculty salaries.

— Each college, department and location should review its methods of assessing faculty for purposes of salary adjustments and should make an effort to develop some uniformity in the process.

— The provost's office, starting in 1997, should review the salaries of the faculty at all locations that fall within the lowest one-third of a department's salary structure and set aside a significant percentage of salary increase funds to reduce "unjustifiable disparities" in salaries.

The subcommittee's recommendations to the Senate include:

— The Senate chair should reconvene a salary committee in the year 2000 to study the issue of salary disparities and determine if the Senate should provide further advice to the administration on salary raises.

Two standing committees, on faculty benefits and on planning, shall appoint a joint subcommittee to work with the administration to develop ways of gathering and analyzing data, in order to determine salary adjustment policies.

— The Faculty Benefits Committee should investigate the impact of regional variations in cost of living on faculty at different Penn State locations and shall also conduct a faculty salary gender equity study no later than the 1998-99 academic year.

In other matters:

— **John A. Brighton**, executive vice president and provost, updated the Faculty Senate on University Planning Commission activities. A complete copy of his text and budget slides can be found on the Web at <http://www.ur.psu.edu/PresAdmin/brightonsenate/INDEX.HTM>.

General education objectives under review

By ALAN JANESCH
Public Information

The University Faculty Senate's Special Committee on General Education has spent the summer looking hard at Penn State's general education program — and at comparable programs across the country — and has developed a working document that spells out principles and draft recommendations for changing the Penn State program.

"We're trying to focus the structure of general education on objectives related to proficiencies like writing, quantitative analysis, critical thinking, information literacy and their use in understanding broad knowledge areas," said Robert Pangborn, the committee's chair and associate dean of undergraduate studies in the College of Engineering.

"The key at this point is the objectives, rather than requirements that are translated immediately into courses and credits," Pangborn said. "We want to get away from that kind of definition."

The committee, which began discussion of its working document at a meeting last week, is currently discussing specific ways to define general education in terms of broader objectives. The committee is scheduling several more meetings between now and December (see schedule at right) and inviting the University community to attend its meetings and make comments on the working document.

In its present form, Penn State's general education program requires all undergraduates to take 46 credits in courses that cover a broad spectrum: 15 credits in communication and math skills, four in health sciences, four in physical education, nine in the natural sciences, six in the arts, six in humanities and six in the social and behavioral sciences.

Its aims are to help students understand and appreciate the multifaceted nature of knowledge and to develop their intellectual curiosity, strengthen their ability to think and deepen their sense of aesthetic appreciation. General education, according to Penn State's basic liberal arts program bulletin, is "the breadth of knowledge involving the major intellectual and aesthetic achievements of humanity."

Based on the findings of its investigation this summer, the committee has concluded that there's no clear national consensus on which colleges and universities have the best general education programs. But even though specific structures and features vary widely from institution to institution, the committee has noted that good programs share several important general features.

"Good general education," the committee says in a working document that will soon be made available for review and comment from the University community, "is idiosyncratic, tailored to particular institutions and their needs."

Also, says the committee, good general education: — promotes wholeness, "rather than balkanized

Meeting schedule

The Special Committee on General Education, which met last week to discuss the principles, objectives and recommendations outlined in a lengthy working document, has scheduled two more meetings between now and December.

Both meetings will be held on Tuesdays, from 4 p.m. to 5:30 p.m., in the Nittany Lion Inn. Dates and meeting rooms are Oct. 22, Ballroom D, and Dec. 3, Fireside Lounge. These meetings are open to all members of the University community. The committee also is trying to schedule two more meetings, one around the end of September or beginning of October, and the other around mid-November.

The committee hopes to have a final document prepared in time for the Faculty Senate to discuss in a forensic session in December and schedule a vote on it at its January 1997 meeting.

ing general education into courses, disciplines and departments."

— builds a continuous and dynamic kind of assessment and improvement program into the curricular process itself.

— emphasizes active learning and collaboration; and

— encourages a commitment to inquiry beyond the curriculum.

As he has done since the committee began its work early this year, Pangborn emphasized that the committee will be very open as it reviews the working document and prepares a final report.

The committee plans to distribute its working document widely and seek comment from undergraduate education administrators and faculty in the colleges. Also, committee members will fan out and discuss it with people in their own units or on their own campuses and seek input from students.

The committee believes the current definition and objectives of Penn State's general education program, with some updating and clarification, are still appropriate. It reached consensus over the summer on several principles on reshaping the program, including:

■ Penn State should move toward a competency approach that requires the development of proficiencies and the integration of skills and domain knowledge, not the accumulation of credits. There is a need to emphasize learning — not teaching, not curriculum, not courses, not credits.

■ Assessment should concentrate on process rather than outcomes and assess the opportunities for and quality of student learning.

■ The University must find ways to resolve the competing demands of flexibility and portability (regarding general education for different majors and colleges).

SATS

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The College Board, which administers the SAT process, will send the test results to institutions of each student's choice.

"This ranking is another indicator that Penn State is considered one of the most attractive institutions in higher education," President Graham B. Spanier, said. "Other good signs include the facts that the number of SAT score submissions to us increased by nearly 6,500 in one year, we have the largest dues-paying alumni association in the nation, we just finished another record-breaking private fund-raising year, and we rank second nationally in industry-sponsored research."

According to a state-specific 1996 profile from the College Board's New York headquarters, 30,398 college-bound Pennsylvanians scored, or 43.4 percent of those that sent scores to universities, chose Penn State as a recipient. The next most popular destination in the Commonwealth was Indiana University of Pennsylvania, which received 9,533 scores, while the University of Pittsburgh received 9,059, Temple University received 8,728, and Slippery Rock University received 6,456.

Although not all students who submit their SAT scores will be offered entrance to Penn State, seeing the scores gives admissions officers the opportunity to send further information to promising seniors that are already interested in the University.

■ A Penn State undergraduate education should inspire active learning and collaboration, and encourage a life of learning and discovery.

The committee's reworked mission statement emphasizes that effective general education should enable students to acquire knowledge by gathering critical information themselves (through computer-assisted searching as well as reading and listening), learn to communicate effectively, and collaborate with others in seeking and sharing knowledge as well as learn through independent work.

John Cahir, vice provost and dean of undergraduate education, said he feels extremely positive about the committee's working document and is looking forward to seeing its final report.

"We recognize that general education needs to support and respond to the needs of the individual academic colleges. It needs to protect the variety of courses, high level of student choice and high degree of mobility that are major strengths at Penn State," Cahir said. "At the same time, we want to emphasize the common elements of a Penn State undergraduate education. The Penn State education needs to embrace a substantial level of common skills and knowledge and also needs to allow a high level of 'portability' from major to major."

Survey

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Welch noted that the survey is too multifaceted to produce only a single response, report or policy. The results reflect both the University's strengths as well as opportunities for improvement. Among the major findings she mentioned were the positive feelings about Penn State shared by faculty and staff. Fifty eight percent of faculty who responded and 60 percent of staff said the University is "one of the best" or "an above average" place to work.

All responding groups rated the quality of job performance among the top three values and said that job performance has not been recognized enough by the University. Welch said, "Penn States

believe in merit and probably believe that the small average raises of the past several years have not been enough."

"Our faculty, compared to faculty members around the nation, are much more likely to feel that they are informed about what is going on and much more likely to say that relations between faculty and administrators are good," Welch said. "While this is an encouraging benchmark, we cannot be satisfied that around one-third of our faculty and staff report either poor communication or lack of respect."

Another problem area, "is that some parts of our staff do not understand or appreciate our research

and service missions, especially our research mission."

"While almost all faculty, administrators and staff say they value teaching and almost all faculty and administrators say they value research, only a slight majority of our staff say that they value research and only a slightly larger proportion value public service outside the University," she said.

"To have a significant proportion of our workforce not understanding one and, perhaps, two of our three major missions suggests that we are not communicating their importance very well."

LECTURES

Workshops to help tenure-track faculty

The Office for Minority Faculty Development is offering a series of workshops for tenure-track faculty who want to know more about the role of publishing in their careers, promotion and tenure, advice on advancing from associate to full professor, and how to find external funding for research. The workshops are open to all faculty at all locations.

The Spring Semester series will repeat several of the high-demand topics and will include a session on vita development.

Because the workshops are popular, reservations are required. Please call Mary Leone at (814) 863-1663 at least three days before the session.

Workshops this fall are:
■ Friday, Sept. 27: "Publishing—Mastering the Art," presented by Hector Flores, director of the Science, Technology and Society Program and professor of plant pathology and biotechnology; 2 to 5 p.m. in 114 Kern Building.

■ Saturday, Oct. 5: "Promotion and Tenure for Junior Faculty," presented by **Blannie Bowen**, senior faculty mentor and professor of agricultural and extension education; 9 a.m. to noon in 114 Kern Building.

■ Friday, Oct. 18: "Advancing from Associate to Full Professor," presented by **Grace Hampton**, professor and executive assistant to the provost for the development of the arts; **Murry Nelson**, professor of education and American studies; **C. Channa Reddy**, distinguished professor of veterinary science; and **James Stewart**, professor and vice provost for educational equity; 3 to 5 p.m. in Colonial Room 1 of the Nittany Lion Inn.

■ Saturday, Nov. 16: "External Funding," presented by **Robert Killoren**, director of Sponsored Programs; 9 a.m. to noon in 114 Kern Building.

Symposium to present ideas on new learning environments

A symposium focused on ideas and strategies for creating active, collaborative learning environments will be held Saturday, Oct. 5, from 9 a.m. to 4 p.m., in the Joab Thomas Classroom Building at University Park.

The symposium, free to Penn State faculty and staff, will begin with a keynote session featuring three Penn State faculty who transform learning through collaboration, group activities and innovative use of communication technologies. Concurrent sessions follow that expand on these strategies. Luncheon will feature optional roundtable discussions on faculty support for creating new learning environments. The afternoon will be devoted to workshops on problem-based learning, assessment, instructional design and using the World Wide Web as a learning environment or for course information. Faculty and staff may select which sessions and workshops they wish to attend.

The symposium is sponsored by the Center for Academic Computing, Center for Learning and Academic Technologies, Instructional

Development Program, Office of Undergraduate Education and Schreyer Institute for Innovation in Learning.

Some sessions planned for the daylong symposium include: "Communication Technologies for Course Design," by **David Passmore**; "Innovative Strategies for Collaboration in the Classroom," by **Charles Garofan**; "Designing, Collecting and Analyzing Student Data as Part of the Innovation Process," by **Diane Enerson**; "Strategic Use of the Web for Class Activities," by Center for Academic Computing staff.

To register, send e-mail to seminars@psu.edu.

For copies of the seminar guide or a symposium flier, call (814) 863-4356. Seating will be limited for some of the workshops. Preregistration is requested; however, you may register the day of the symposium at 8:30 a.m. in the lobby.

For more information, see the Web site <http://lets.ca.psu.edu/news/Findex.html> or contact **Karen Peters** at kmp138@psu.edu; or call (814) 863-7763.

Clogg Memorial keynote talk to address empirical study

Leo A. Goodman, the class of 1938 professor of statistics and sociology at the University of California at Berkeley, will deliver the first Clifford C. Clogg Memorial Lecture in Sociology and Statistics on Friday, Sept. 27, from 5:30 to 6:30 p.m. in Room 101 of the Thomas Building.

Among the most cited authors in the *Social Science Citation Index*, Goodman has had a major impact on research methods used in sociology and other areas of the social sciences.

His lecture, titled "The Empirical Study of Latent Types, Latent Variables and Latent Structures: An Introduction for the Untutored and Some Surprising New Results for the Enlightened," is the keynote address at the interdisciplinary Conference on Social Science and Statistics. The conference, which will be held at Penn State from Sept. 26 to 28, honors the



Leo A. Goodman

late Clifford C. Clogg, who was distinguished professor of sociology and professor of statistics at Penn State from 1979 to 1995. The keynote address by Goodman, a long-time mentor, colleague and friend of Clogg, is open to the public.

Goodman received his Ph.D. in mathematical statistics from Princeton University in 1950 and served as a faculty

member in the departments of statistics and sociology at the University of Chicago until 1986, when he joined the faculty of the University of California at Berkeley.

For additional information, call the Department of Statistics at (814) 865-1348. For information about registering for the Conference on Social Science and Statistics, contact the Office of Conferences and Institutes at (814) 863-5100.

Chemistry library head to speak on Oct. 2

Gary Wiggins, head of the Indiana University Chemistry Library, will be the featured speaker for the 1996 Lesh Lecture on Chemical Information. Wiggins will speak on "Current Trends in Chemical Information: Perspectives of an Academic Chemistry Librarian" at 3:30 to 4:30 p.m. Oct. 2, in Ballroom C of the Nittany Lion Inn on the University Park Campus.

The Indiana University Chemistry Library has long enjoyed a reputation as an early adopter of innovative chemical information services and products. The use of computers has accelerated dramatically in the last five years. Wiggins will focus on computer-based tools that have had the most significant impact to date and those that hold the most promise for revolutionary developments in the future.

Wiggins has served the American Chemical Society and its Division of Chemical Information, and chaired the Special Libraries Association Chemistry Division. He is the listowner of the popular CHIMIN-L (the Chemical Information Sources Discussion List).

Wiggins earned a bachelor's degree in chemistry, master's degrees in library science and Slavic languages and literature, and a doctoral degree in library and information science, all from Indiana University.

The Lesh Lecture is a series of lectures on scientific and chemical information made possible through the private support of Penn State alumna Dorothy Lesh and hosted by the University Libraries. A reception will immediately follow the lecture in Ballroom C.

Manufacturers' needs topic of forum

The "Needs of Pennsylvania Manufacturers" will be addressed during a noon presentation on Wednesday, Oct. 9, at the Penn State Downtown Center in Harrisburg.

Jack Gido, director of the Pennsylvania Technical Assistance Program (PENTAP) at University Park, will focus on the major findings of a recent survey of manufacturing firms in the Commonwealth

regarding their technical information, technical assistance and training needs.

The noon to 1:30 p.m. forum at the Downtown Center is free and a question-and-answer period will follow Gido's presentation, which is one of a series on public policy issues.

For information, call the Penn State Downtown Center at (717) 783-0433.

More Lectures

International linkages to be promoted at conference

The Pennsylvania Council for International Education (PACIE) will hold its 27th Annual Conference on Oct. 10-11, at the Nittany Lion Inn. The conference theme is "Promoting International Linkages: Models for the Year 2000," and will feature discussions on a variety of topics related to international education.

The keynote speaker on Thursday will be Jack Van de Water, dean of international education, Oregon State University. His topic will be "New Policies and New Partnerships: Looking to the Future."

Penn State contributions to the

conference include: "The Role of International Education in the Future Welfare of Education," chaired by Helen E. Caffrey, director of Commonwealth relations; "International Education Through Distance Education: A Live Demonstration," chaired by Gary Miller, assistant vice president for Distance Education; and an evening event with Penn State's International Dancers directed by Elizabeth Hanley, assistant professor of exercise and sport science.

For more information about the PACIE conference, call (215) 387-4055 or fax (215) 382-4716.

Talk topic is student aid and advising

"Student Aid: Should It Affect Academic Advising?" is the topic of the brown-bag advising lunch, from noon-1 p.m., Wednesday, Oct. 2, in 305 HUB at University Park. **Ro Nwanki**, student aid adviser, Office of Student Aid, will lead the discussion. All faculty and staff interested in academic advising issues may attend.

This is the first session in the

series of advising lunches initiated this semester. Sponsored by the Division of Undergraduate Studies (DUS), the series provides advisers with an opportunity for professional development and networking. DUS expects to continue this series during fall semester. For more information, contact Laura Brown, 205 Grange Building, at (814) 865-7576, or e-mail lsb1@oas.psu.edu.

Performance symposium planned

The Performance Art, Culture, Pedagogy Symposium, set for Nov. 13-16 at the Penn State Scanticon, will feature more than 40 of the nation's finest performance artists, critics, historians, educators and arts presenters.

According to Charles Graio, associate professor of art education, this is the first symposium of its kind to examine the historical, theoretical and experiential significance of performance art in order to distinguish its pedagogy as an emerging form of arts education. Approximately 300 educators nationwide are expected to participate in the symposium.

The comprehensive four-part program includes a performance series, a speaker series, a workshop series and a panel discussion series.

The performance series will open Wednesday, Nov. 13, and continue through Nov. 16.

The evening performances are open to the public and tickets go on sale Oct. 1. For ticket information call (814) 863-0255 or (800) 278-7849.

For a conference registration form or more information, call (800) PSU-TODAY or visit the Web page at <http://www.cde.psu.edu/csr/PACP.html>.

Development series begins Oct. 10

Penn State Harrisburg, in conjunction with the National University Teleconference Network, is offering a "Teacher's Workshop and Staff Development" series beginning Oct. 10.

Nationally acclaimed speakers will provide practical information and classroom strategies via tele-satellite communications. With the interactive workshop format, participants will have the opportunity to speak directly with the experts. Curriculum materials will be provided for these two-hour workshops, which will be held on Thursdays throughout the year.

The series kicks off Oct. 10 with "The Technology Possibilities," featuring a discussion on the one-computer classroom and Internet teaching in a 21st-century high school.

On Oct. 24, topics include: "Teach-

ers Moving Into Technology," "Why Be Nervous," "Preparing Teachers for Technology Using Distance Education Field-Trips" and "Technology Grant Writing for Teachers."

Other workshop topics include: "School Reform: What It Means for Teachers," "Discipline for At-Risk Kids," and "Multiple Intelligences: New Ways to Teach!"

All workshops will be held from 4 to 6 p.m. at the Educational Activities Building, Room 101, Penn State Harrisburg, 777 West Harrisburg Pike, Middletown, Pa. The individual fee for each workshop is \$25. If four or more participants register from one organization, a reduced total fee of \$85 per workshop will apply.

For more information, call Continuing Education at (717) 948-6505.

Obituaries

Plant pathology professor was 69

Paul E. Nelson, professor of plant pathology in the College of Agricultural Sciences, from Sept. 1, 1965, until his death Aug. 11. He was 69.

Nelson was a 1949 graduate of Fortson Junior College in Fullerton, Calif., with a degree in plant sciences. In 1951, he received his bachelor's degree and in 1955 he received his Ph.D. in plant pathology from the University of California at Berkeley. From 1955 to 1961, he was assistant professor; in 1961 he was named associate professor of plant pathology at Cornell University.

Named a professor at Penn State in 1965, he also served as the interim department head for the Department of Pathology from 1981-1982. He received the Faculty Scholar Medal for Outstanding Achievement in Life and Health Sciences in 1984 and the Alex and Jessie C. Black Award for Excellence in Research in 1992. He belonged to numerous professional organizations.

Professor emeritus of education was 81

John Withall, professor emeritus of education and educational psychology, died on Wednesday, July 31 in Florida. Withall was born on Oct. 12, 1914, in London. He received his bachelor's and master's degrees from Bishop's University in Quebec and his Ph.D. in 1948 from the University of Chicago.

Withall, who was a licensed psychologist, served as a public school teacher in Montreal and as a faculty member at Brooklyn College, the University of Wisconsin before coming to Penn State in 1964. He was head of the Department of Secondary Education from 1965-1969. He retired from the university with emeritus rank in 1980, but continued to teach courses until 1987. He had extensive experience working in international education projects, serving as executive secretary of the United States Educational Foundation in Karachi, Pakistan; overseas representative to the Peace Corps in Abidjan, Ivory Coast; and coordinator of the Educational Advancement Education Study and Adaptation Center at the University of Lagos in Nigeria.

Withall was the author of scores of articles in professional journals as well as chapters in publications such as the *Handbook of Research on Teaching* and the *Encyclopedia of Educational Research*. Among his proudest accomplishments was being awarded the first College of Education Teaching Award in 1977.

Deaths elsewhere

Naomi M. Bortel, assistantivist in the Research and Graduate School, from April 8, 1988, until her death July 31. She was 57.

Jack F. Hennessey, supervisor, Auxiliary Enterprises, at the Penn State

Abington-Ogontz Campus, from July 1, 1976, until his retirement July 1, 1993; died Aug. 2. He was 73.

Darlene N. Ilgen, dining hall supervisor, Housing and Food Services, from Sept. 1, 1964, until her retirement Feb. 16, 1980; died July 26 at the age of 76.

Bruno J. Martini, systems planning specialist in C&IS Management Services, from Nov. 1, 1959, until his retirement Jan. 1, 1992; died July 5 at the age of 60.

Dale Venoy Mauck, 79, a former maintenance worker at the University, died July 19 at the age of 79.

Elmer E. May, environmental health worker at The Hershey Medical Center, from April 6, 1970, until his retirement Oct. 1, 1982; died July 14. He was 75.

Robert J. McGlynn, an electrician at Penn State for 26 years until his retirement in 1991, died July 27. He was 67. McGlynn was a U.S. Air Force veteran of the Korean War, where he served as a colonel and was an airplane electrical mechanic. He founded McGlynn's Appliance Service in Tyrona, Pa., and operated it for 38 years.

Kathleen E. Nearhoff, 83, died July 21. She had been employed at Penn State for many years. She was a member of the University Bible Church in State College and a former member of the Warriors Mark Fire Company Ladies Auxiliary.

Maria E. Noss, linen room worker with Housing and Food Services, from April 1, 1956, until her retirement May 1, 1968; died July 6 at the age of 93.

Donald I. Pettigill, production assistant in the bakery, Housing and Food Services, from Aug. 22, 1938, until his retirement Sept. 1, 1973; died Aug. 16 at the age of 80.

Preston R. Robb, accountant for HUB Food Services, Housing and Food Services, from Sept. 9, 1951, until his retirement June 30, 1981; died Aug. 16. He was 78.

Nancy C. Rose, a former food service worker, died July 22 at the age of 92. She was a Gold Star Mother, a special designation for those whose children died while serving in the military in World War II. She is survived by two daughters, four sons, two sisters, two brothers, 27 grandchildren, 26 great grandchildren and one great-great grandchild.

David W. Russell, professor of education in the College of Education, from Sept. 1, 1949, until his retirement Oct. 1, 1968; died Aug. 9. He was 93.

Mark A. Van Slyke, assistant professor of radiology at The Hershey Medical Center, from Aug. 1, 1993, until his death Aug. 16. He was 39.

Doris E. Whitman, senior clerk, Penn State Harrisburg, from Sept. 1, 1966, to Oct. 1, 1986; died June 17. He was 71.



Quality month

In recognition of October as National Quality Month, several special quality programs are scheduled during October:

■ **The ASQC Quality Forum XII**—Quality 1 on 1: A New Game Plan, a live satellite broadcast, will feature speakers from Hewlett-Packard, SAS Institute, Rail Canada, NASA and 3M, among others. The Forum is scheduled from 1-3:35 p.m. on Thursday, Oct. 3. The University Park download will be at The Penn State Scantron. Cost is \$15 per person. To register, contact Sue DeArmitt, 118 Keller Bldg., at (814) 863-0229, or e-mail smnd@cdc.psu.edu by Sept. 25.

■ **Warren Alpaugh** from IBM and **Bob George** from DuPont will share their experiences and insights in a seminar from 8:30-10 a.m. on Thursday, Oct. 10, in the Mount Nittany Room of the Nittany Lion Inn.

■ A panel will explore specific Penn State examples where CQI is being used to improve academic processes, both in and out of the classroom. Panelists are: **Bill Engelbreit**, associate professor of accounting, Altoona; **Linda Null**, assistant professor of computer science, Harrisburg; **Ed Reutzel**, associate professor of management science, University Park; and **Fred Eisele**, professor and head, Department of Health Policy and Administration, moderator. The panel will be held from 3:30-5 p.m. in 106 Mitchell Building on Thursday, Oct. 17 and also will be available to locations via interactive compressed video (PictureTel).

■ Utilizing Continuous Quality Improvement in Education and Training, featuring **Philip Crosby** and **Bob Cornesky**, is scheduled for Oct. 22 and 23 at The Penn State Scantron. Crosby, founder of the world's largest quality management education company, will have afternoon and evening presentations on Oct. 22 on the philosophy, history and practice of quality management. Cornesky, one of the first educators to introduce quality management ideas into college and university administrations and classrooms, will have presentations all day Oct. 23 on quality in the academic community. More information is available on the Web at <http://www.cdc.psu.edu/CQI/CQI Classroom/> and from the Center for Quality and Planning. Cost is based on the programs for which you register. For registration information, contact Kristin Owens at (814) 863-5140.

News in Brief

Great Insect Fair here again

It's time again to learn about those creepy, crawly creatures of the insect world. You can experience haute insect cuisine at the fourth annual Great Insect Fair on Sept. 21 from 10 a.m. to 4 p.m. in and around the Agricultural Sciences and Industries Building.

The fair, held to showcase the diversity and beauty of insects, will include an Insect Deli and samples of culinary curiosities made from bugs. Another highlight of this year's event is "Dancin' with the Honeybees," a program presented by master beekeeper and educator **Cliff Sunflower**. Using storytelling, poetry, prose, music and dance, Sunflower transforms the audience into a working beehive to illustrate its complexity. "Dancin' with the Honeybees" will be presented at 11 a.m. and 2 p.m. in 101 ASI.

In addition, several activities designed specifically for children are planned and displays of insect collections can also be viewed. Visitors can tour the Frost Entomological Museum, pick a winner at the Cockroach Races or watch the parade of insects at 12:30 and 3:30 p.m.

For more information about the event, contact The Department of Entomology at (814) 865-1895.



"Depressed" people needed

Most people feel depressed at some time or another in their life, but some experience major depression. A study designed to help people with this problem currently is being conducted. You may be experiencing major depression if you:

- Feel depressed most of the day, nearly every day;
- Experience a marked decrease of interest and pleasure in almost all activities;
- Feel fatigue or loss of energy most of the day;
- Feel worthless or excessive guilt; or
- Feel a decreased ability to think or concentrate.

If you believe you are experiencing major depression and would like to be considered for a study being conducted by the Department of Psychology, please call **Charles Hines** at (814) 863-4833.

Subjects (ages 18-55) included in the study will receive 12 to 20 free sessions of individual psychotherapy, either immediately after being assessed for depression or 12 to 20 weeks later. Subjects also will be asked to complete various questionnaires during and after treatment. A brief telephone interview will help with a preliminary determination of the suitability of this treatment for you. If you cannot be included in this treatment, alternate referral suggestions will be made. Strictest confidentiality is maintained.

New Programs at the McCoy Natatorium

Several new aquatic programs are beginning this fall at the McCoy Natatorium and White Building pools on the University Park Campus. They include instruction in springboard diving, competitive swimming, a stroke analysis and refinement clinic for competitive swimmers and aquazone.

Call the McCoy Natatorium for details, including fees and schedules, at 865-1432 or 865-1433, or fax 865-3728.

What's Up?

Penn States everywhere can now keep up-to-date on diversity events at University Park, thanks to the new Diversity Calendar on the World Wide Web. Just click on the "diversity" button on Penn State's home page (<http://www.psu.edu>) or go directly to the page at <http://www.psu.edu/80/staff/diversity/cal.html>.

Marc B. Levey, senior diversity planning analyst, is managing the calendar. He wants to hear from all faculty, staff and students who are planning workshops, exhibits, lectures, meetings and other events open to the community that add to the multicultural life of campus.

The calendar, which lists events in the current month, changes periodically as new events arise. More to be

sure your event is listed, send Levey the time, date, place, name or brief description of the event and the sponsoring organization by e-mail the seventh day of the month before the event is to take place. His e-mail address is mlb1@psu.edu.

If you would like to talk to Levey about the calendar, please call him at (814) 863-2994.

Commencement schedule

The commencement schedule for University Park for the 1996-97 academic year is as follows:

FALL SEMESTER 1996

Sunday, Dec. 15—Undergraduate and associate degree at 1 p.m. in The Bryce Jordan Center; and The Graduate School at 4 p.m., Eisenhower Auditorium.

SPRING SEMESTER 1997

Friday, May 16, 1997—University Scholars at 2 p.m., Eisenhower Auditorium; The Graduate School at 5 p.m., Eisenhower Auditorium; ROTC commissioning at 3 p.m., Schwab Auditorium; College of Education at 8 p.m., Eisenhower; College of the Liberal Arts at 8 p.m. in The Bryce Jordan Center; and

Saturday, May 17, 1997—Eberly College of Science at 9 a.m., Bryce Jordan Center; College of Agricultural Sciences at 9 a.m., Eisenhower Auditorium; College of Health and Human Development at noon, Bryce Jordan Center; College of Arts and Architecture at noon, Eisenhower Auditorium; College of Engineering at 3 p.m., Bryce Jordan Center; College of Communications at 3 p.m., Eisenhower Auditorium; The Smell College of Business Administration at 6:30 p.m. in The Bryce Jordan Center; and the College of Earth and Mineral Sciences at 6:30 p.m., Eisenhower Auditorium.

SUMMER SESSION 1997

Saturday, Aug. 16, 1997—Undergraduate and associate degree at 10:30 a.m., Bryce Jordan Center; and the Graduate School at 2 p.m., Eisenhower Auditorium.

Toastmasters meet

The Happy Valley Toastmasters will meet at noon on the following days in room 310 Shields Building: Oct. 8 and 22; Nov. 12 and 26. For more information, call **David Panko** at 237-2822.

Call for volunteers

W. Larry Kenney at the Noll Physiological Research Center is recruiting male volunteers for a research study investigating how blood flow is distributed in the body during heat stress, and why older individuals are more susceptible to heat-related illness.

Participants will earn money and obtain a free medical screening, exercise test and body composition analysis.

Volunteers should be healthy, non-smokers age 60 to 85 and not currently taking any medications.

For more information, call **Christopher Minson** or **Stacey Wladowski** at (814) 863-2948.

Christian fellowship

The Penn State Christian Faculty/Staff Fellowship holds weekly Lunch Fellowship Meetings every Thursday from noon to 1 p.m. in room 307 HUB. All Christian faculty and staff are welcome to attend. For more information, contact **John Gimbal** at (814) 863-2739 or jgimbal@psu.edu. Or, you can visit their Web site at <http://lhcac.psu.edu/~jmc6/CFSF/cfsfhome.html>.

Lion moving

The 140-year-old stuffed and mounted mountain lion—recently returned to Penn State after a 40-year sojourn at the Carnegie Museum in Pittsburgh—will be introduced to its new temporary residence at 11 a.m. Tuesday, Sept. 24, in the Reserve Reading Room lobby of West Pattee Library.

Now dubbed "The Original Nittany Lion," the specimen will find a permanent, state-of-the-art home at the main entrance of Pattee following completion of the Paterno Library. The lion was recently restored and is said to be the state's only native mountain lion from its original and now-extinct population.



Holy day

Freshman Larry Kreger, a member of the Hillel Foundation of Jewish Campus Life, blows a shofar in front of Eisenhower Chapel on the University Park Campus. The shofar, a ram's horn, is blown to celebrate Rosh Hashana, the Jewish New Year, which was Sept. 14. Services will be held on the University Park Campus for Yom Kippur, the Day of Atonement, at 7:30 p.m. Sept. 22 and at 9:30 a.m. and 4:30 p.m. Sept. 23 in the HUB Ballroom. There are an estimated 3,500 to 3,800 Jewish students at University Park.

Photo: Greg Grieco

Faculty/Staff Alerts

Reorganization

The Office of Business Services has reorganized its operations within the Hostetter Business Services Building on the University Park Campus to better support the needs of the University community. The Printing, Copy Centers, Copyright, Addressing and Mailing departments have collectively been renamed the department of "Document Services."

The main entrance to the building, on the right, now serves as the central point of contact for customers of Addressing and Mailing Services in addition to Printing and Copy Centers. A team of customer service representatives is available to handle orders, field inquiries and provide start-to-finish project coordination. The accounts payable/receivable personnel have also been combined in order to offer itemized, consolidated billing of Addressing, Mailing, Copy Centers and Printing jobs. The prepress and design areas will now have responsibility for all electronic file preparation and file manage-

ment including personalization and addressing list verification. For more information, call Document Services at (814) 865-7544.

Commission on Racial/Ethnic Diversity meeting dates

The following is a list of meeting dates for the Commission on Racial/Ethnic Diversity for 1996-97. All meetings, which begin at 12:30 p.m. and end at 2:30 p.m. in room 404 Old Main, are open to the public:

- Friday, Oct. 18
- Wednesday, Nov. 13
- Friday, Dec. 13
- Thursday, Jan. 23, 1997
- Friday, Feb. 21, 1997
- Thursday, March 20, 1997
- Friday, April 18, 1997
- Thursday, May 22, 1997
- Friday, June 6, 1997

Several projects planned for annual Day of Caring

University employees are encouraged to participate in work projects for United Way agencies and other non-profit organizations throughout Centre County on Thursday, Oct. 3, during the third annual PNC Bank — United Way Day of Caring.

Last year, almost 4,500 local volunteers, including several hundred members of the University community — ranging from administrators to student groups — took a vacation day off work or school to help the agencies.

Volunteers built, repaired, painted and landscaped at more than 100 projects, including creation of an athletic field at the State College YMCA, a nature center in Penns Valley, a roof at Moshannon Valley YMCA and a storage shed at the Second Mile.

At the Infant Evaluation Center in State College, a crew of some 30 Penn Staters from the Division of Development and Alumni Relations and nearly 25 employees of Corning Asahi Video Products Co. of State College erected a playground unit, picnic tables and a chain link fence.

"It was a very worthwhile vacation day," George Moellenbrock, director of corporate and foundation relations, said. "We had a lot of very enthusiastic people involved. Our crew concentrated on the playground unit, while the Corning group did the fencing."

"All in all, it was a great experience and a real morale booster. Everyone seemed to feel good about it."

The number of projects and agencies involved in this year's Day of Caring is expected to increase.

"The community spirit behind this event keeps growing and growing," Gerald F. Russell, Day of Caring co-chairman, said. "We anticipate that



the event will continue to grow and that the size, scope and number of projects will increase."

Projects scheduled this year include:

Painting at Counseling Service, YMCA and the Youth Center in Bellefonte; a variety of painting, construction and repair projects at the Infant Evaluation Service, Strawberry Fields, Women's Resource Center, Temporary Housing, YMCA, Easter Seals, Association of Retarded Persons, Skills, Inc., Youth Center — Stormbreak, Food Bank, Sight Loss Support Group and Wellspring, all in State College; painting at the Philipburg YMCA and weatherproofing buildings at the Hemlock Jr. Scouts in Petersburg.

Also scheduled is work at Walnut Spring Park and Lederer Park in State College and general field maintenance at four Little League baseball fields in State College.

The day's agenda calls for volunteers to meet in the morning at Beaver Stadium for registration, distribution of Day of Caring T-shirts and a pancake breakfast provided by Penn State Intercollegiate Athletics; work throughout the day, with lunch included; meet at the State College Elks Country Club in Boalsburg in late afternoon for an event celebration.

Individuals and groups from the University community who are willing to take a vacation day to participate in the event can contact the Centre County United Way at 238-8283 for volunteer information and a complete listing of projects.

GURU updates

In light of the scheduled elimination of the EMC2 mail system in July 1997 and the increased use of GURU, Systems and Procedures will no longer support its SYS/PRO-NEWS bulletin board under EMC2 effective Oct. 1. Information from the EMC2 bulletin board is available in "current news" in GURU.

GURU also enables users to order paper forms supplied at no charge by Systems and Procedures (and not available via Form on Demand) using a new online form order system. Access to this order system can be found on the General Forms Usage Guide — Forms Table of Contents page in GURU. To go there directly, point your browser to <http://guru.sp.psu.edu/formordr/gurord2.html>.

The ARTS

AT PENN STATE

"Romeo and Juliet"

The Hawthorth Shakespeare Festival version of "Romeo and Juliet" opens the Center for the Performing Arts 1996-97 season at 8 p.m. Saturday, Sept. 21, in Eisenhower Auditorium on the University Park Campus. The Center for the Performing Arts is a program of the College of Arts and Architecture.

While not a word of the original play has been changed, this vibrant version places "Romeo and Juliet" in modern South Africa. The timelessness of Shakespeare's words unfold in a story of intertribal strife, rebellion and young love. The production features leading actors from the Royal Shakespeare Company and the National Theatre of Great Britain.

Tickets are \$23.50 for non-students; \$19.50 for students. For tickets or more information, contact the Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Playwright coming

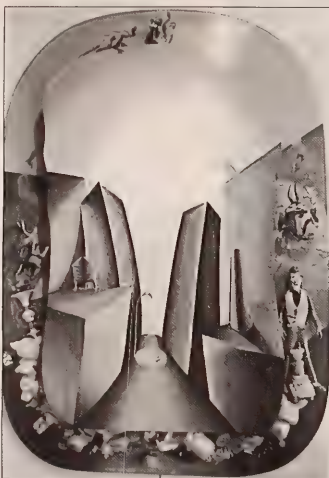
Celebrated American playwright John Pielmeier will visit the University Park Campus today through Sunday, Sept. 22, when he will give a performance of his one-man play "Will: An Evening of Wilderness and Spirit."

Pielmeier, who holds a bachelor's degree in acting and playwriting from the Catholic University of America, received an MFA from Penn State in 1978.

Pielmeier is best known for his play "Agnes of God," which premiered in 1979 at the National Playwrights Conference. "Agnes of God" ran on Broadway for 17 months and garnered Tony Award nominations for actresses Geraldine Page and Amanda Plummer. The play was also made into a major motion picture starring Jane Fonda, Annie Bancroft and Meg Tilly.

Other well-known works by Pielmeier include "Sleight of Hand," "The Boys of Winter," "Choices of the Heart" (a television movie based on the playing of American missionaries in El Salvador), and "Courage," a one-man show on the life of J.M. Barrie. On Oct. 14 his latest play, "Voices in the Dark," will open at the Promenade Theater in New York.

Pielmeier's visit to Penn State is part of the Institute for the Arts and Humanistic Studies 30th Anniversary



Fusion art

The work of Shalom Noiman, a fusion of painting and sculpture, is on display at the Hetzel Union Building Browning Gallery on the University Park Campus through Oct. 20.

celebration. In addition to undergraduate and graduate workshops in acting and directing, Pielmeier will be giving his one-man performance at 5 p.m. Sept. 22 at the Playhouse Theatre. There is no admission fee for the play, which is open to the public. Ticket reservations may be made by calling the institute at (814) 865-0495. Any remaining tickets will be distributed at the box office, Playhouse Theatre a half-hour before the performance.

Wunderbrass trio to perform for Bach's Lunch

Wunderbrass, a French horn, trombone and tuba trio, will perform for the Bach's Lunch concert at 12:10 p.m. Thursday, Sept. 26, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The trio consists of Kim Reese,

French horn; Tim McKay, trombone; and Jason Byrnes, tuba. The performers are graduate teaching assistants in the School of Music. The concert is free to the public. Audience members may take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Saturday art school

The College of Arts and Architecture School of Visual Arts will offer Saturday morning art classes beginning Saturday, Sept. 28, on the University Park Campus. The program, now in its fifth decade as a central Pennsylvania community service, is open to children ages 5 to 12.

Advance registration in any of the seven new courses is being accepted at (814) 865-6570 from 9 a.m. until 4 p.m. Monday through Friday. Courses are available on a first-come, first-served basis. The only cost involved in the program is a materials fee.

All courses are planned around a central theme: "A Place for Everyone: Art as Commentary." Students in the Saturday Morning Art School have the opportunity to learn how to expand their visual/verbal language.

Beginning sessions open Saturday, Sept. 28, in the Patterson Building Gallery. Courses continue each Saturday through Dec. 7 in the Visual Arts Building, Patterson Building and the Arts Cottage.

Photo exhibit at the HUB

The HUB's research and scholarship areas will display the photography exhibit, "Pennsylvania's Great Treasure: The Capitol Building," by Ed Simmons through Sept. 29.

The exhibit features 14 color images by Simmons of West Chester, Pa. The exhibit will travel throughout Pennsylvania and is brought to Penn State through state Rep. Lynn Herman.

The HUB's research and scholarship areas are located on the first floor of the Hetzel Union Building on the University Park Campus, and are open during all HUB operating hours.

Community Arts Center

The Community Arts Center in Williamsport, part of Penn College, will be the site of the following upcoming performances this season:

- **Singer Tiro Amos** at 7:30 p.m. on Oct. 5; all seats are \$27;
- **"Autumn Fanfare,"** presented by the Williamsport Symphony Orchestra, 7:30 p.m. on Oct. 15; tickets are \$35/\$30/\$24/\$19/\$16/\$12;
- **"Love Letters"** at 7:30 p.m. on Oct. 23; tickets are \$32.50/\$25/\$21.50/\$15.50;
- **"The Sound of Music"** at 3 p.m. on Nov. 3; tickets are \$40.50/\$33/\$25.50/\$20.50;
- **"Mame"** at 7:30 p.m. on Nov. 21; tickets are \$33/\$25.50/\$20.50;
- **Christmas Show LIVE** on Nov. 29 at 8 p.m.;
- **"A Christmas Carol"** at 7:30 p.m. on Nov. 30;
- **"Baroque Holiday,"** presented by the Williamsport Symphony Orchestra, at 7:30 p.m. on Dec. 3; tickets are \$35/\$30/\$24/\$19/\$16/\$12;
- **Winter Solstice Concert** on Dec. 4 at 7:30 p.m.; tickets are \$18.50/\$16.50/\$14.50;
- **The Nutcracker,** presented by the Williamsport Civic Ballet, on Dec. 7 at 7:30 p.m. and 4 p.m. on Dec. 8; tickets are \$25.50/\$20.50/\$15.50/\$10.50;
- **"Here's Love"** at 7:30 p.m. Dec. 11 and 12; and
- **La Bohème** (New York City Opera) on Jan. 15 at 7:30 p.m.; tickets \$35.50/\$25.50/\$18.50.

For more information on the rest of the season or for tickets, call the center at (717) 326-2424 or (800) 432-9382, Monday through Friday, 10 a.m. to 5 p.m.; and Saturday from 11 a.m. to 2 p.m.

Exhibit at Kern

Kern Exhibition Area on the University Park campus will display the exhibit "Happy Feet," from The Pennsylvania Dance Theatre auction through Oct. 13.

"Happy Feet" is shoe art. The shoes, donated by Art and Nancy Fine of Bare Foot in State College and several individuals, were decorated at the HUB Center for Arts & Crafts under the guidance of Isabel Farrell.

The Kern Exhibition Area is on the first floor in Kern Graduate Building. Hours are 8 a.m. to 11 p.m. Monday through Friday; 10 a.m. to 11 p.m. Saturday; and noon to 11 p.m. Sunday.

The exhibit is free to the public.

Country music in Williamsport

Sell-out country star Sammy Kershaw will perform at the Community Arts Center in Williamsport, a part of the Pennsylvania College of Technology, at 7:30 p.m. Thursday, Oct. 24.

Kershaw has had a number of hit singles and albums, including 1991's "Don't Go Near the Water" and its follow-up LP "Haunted Heart." Tickets are \$18.50/\$15.50/\$12.50. For more information, call the arts center at (800) 432-9382.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 19
School of Music, 12:10-12:30 p.m., Eisenhower Chapel, Bach's Lunch Concert.
School of Music, 8 p.m., Recital Hall, Norman Spivey/Robert Hatten.

■ Hillel, 6:30 p.m., Lipcon Auditorium. Film: The Last Seven Months of Anne Frank.

Friday, September 20
Gallery Talk, 2 p.m., Christoffers Lobby, Patrick McGrady on "Some Thoughts on the Steidle Collection."

Geography, 3:30 p.m., 206 Walker, Robert O'Connor on "So What if We Are All Environmentalists? The Political and Behavioral Fallout."

Thursday, September 21
Zoller Gallery, Playhouse Theatre, Palmer Museum of Art, Penn State Scanticon. "Institute for the Arts and Humanistic Studies 30th Anniversary Celebration."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Romeo and Juliet.

Sunday, September 22
Zoller Gallery, Playhouse Theatre, Palmer Museum of Art, Penn State Scanticon. "Institute for the Arts and Humanistic Studies 30th Anniversary Celebration."

Monday, September 23
Yom Kippur.

Thursday, September 26
School of Music, 12:10-12:30 p.m., Eisenhower Chapel, Bach's Lunch Concert: Wunderbrass Trio.

Center for the Performing Arts, 8 p.m., Schwab. Sanford Sylvan and David Brethman.

Friday, September 27
■ Gallery Talk, 2 p.m., Christoffers Lobby, Mary F. Linda on "The Gods Must Be Hungry."

SEMINARS

Thursday, September 19
Gravity Center, 11:30 a.m., 339 Davey Lab, John Baker on "Collisions of Boosted Spinning Black Holes in the Close-Slow Approximation."

Centre County Ministerial Association and the Center for Ethics and Religious Affairs, 7:30 p.m., Eisenhower, Anthony Campolo on "Is Jesus a Republican or a Democrat?"

Ceramics, 11 a.m., Steidle, Ahmad Safari on "Designing, Prototyping and Manufacturing of Composite Materials."

Graduate Program in Nutrition, 4 p.m.-5:30 p.m., HUB Assembly Room, Gregory D. Miller on "Calcium and Osteoporosis."

Friday, September 20
Economics, 3:30 p.m., 420 Kern Graduate Building, Kaushik Basu on "The Economics of Child Labor."

Philosophy, 4 p.m., 124 Sparks, John E. Smith on "Hacking's Insight into the Individual and the State."

Graduate Program in Nutrition, 11 a.m.-12:30 p.m., HUB Assembly Room, Scott M. Smith on "Extended Duration Space Flight: Nutritional and Physiological Implications."

Monday, September 23
Physics, 3:30 p.m., 339 Davey, Susan Ferrel-McKinstry on "Size Effects in Teroelectric Actuator Materials."

Gravity Center, 2 p.m., 339 Davey, Donald Malt on "Comments on Entropy of Stringy Black Holes."



Exhibit

Traditional Zulu baskets from South Africa will be on display at the Paul Robeson Cultural Center from Sept. 23 through Oct. 28. These three baskets are from the collection of alumnus Hade Khan. The gallery is open 8 a.m. to 10 p.m. Monday through Friday.

Photo: Greg Greco

Tuesday, September 24
Geosciences, 4 p.m., 112 Walker, Lou Derry, Graduate Program in Nutrition, 4 p.m., 110 Wartick, Dale Rossmo on "Obesity Research on the Fast Track."

Physics, 3:30 p.m., 339 Davey, J. Bartels. ■ Archaeological Institute of America, 8 p.m., 112 Kern, David Anthony on "The Earliest Horseback Riders and Charioteers: Evidence from the Steppes."

Wednesday, September 25
Gerontology, noon-1 p.m., 101 HHD, Toni Miles on "Genetic Influences on Elders' Disability: An Analysis of African-American Twins."

Thursday, September 26
Physics, 3:30 p.m., 101 Osmond, Jay Patel on "The Role of Tunable Optical Resonators in Science and Engineering."

Gravity Center, 11:30 a.m., 339 Davey, Abhay Ashtekar on "Probing Semi-Classical States in Quantum Gravity."

Department of Food Science, 4 p.m., 117 Bordland, Ed Mills on "High temperature packaging to prevent lipid oxidation."

Ceramics, 11 a.m., Steidle, Gerbrand Ceder on "First-Principles Calculations and Computational Experiments in Oxides."

Friday, September 27
Philosophy, 4 p.m., 124 Sparks, Jay Lambert, Derrick Calandrella and Kym MacLaren on "Synthesis and Backwards Reference in Husserl's Logical Investigations."

Geography, 3:30 p.m., 206 Walker, Deryck Holdsworth on "Downtown Offices in the Transition to Corporate Capitalism: Insights from Buffalo, N.Y."

Sunday, September 29
■ Palmer Museum of Art, 9 p.m., Lipcon Auditorium, Vidya Dehejia and Arthur M.

Sackler on "When God Has a Bedroom: South Indian Temples and Festival Bronzes."

EXHIBITS

Palmer Museum
"Selections of Contemporary Art from the 'Pincus Collection,' through Dec. 15.

"The Wood Engravings of Warren Mark," through Jan. 5, 1997.

■ "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"BFA Exhibition," through Oct. 19.

Kern Exhibition Area
"Lewis, Untangling Strings," Robert Vander Voort.

The poetry of Ian Stainton, Sept. 17 through Oct. 13.

"Happy Feet," The Pennsylvania Dance Theatre, through Oct. 13.

"Art on the Move: The paintings of Marjot Kauhanen-Katz," through Oct. 16.

The HUB Formal Gallery
"Geography of the Unconscious," Nancy Moore.

Through Oct. 19.

The HUB Working Gallery
■ The brow of Shalom Norman, through Oct. 20.

The HUB Art Gallery
The watercolors of Dorothy Grebos, through Oct. 13.

Shaker-style boxes by Steve Strouse, through Oct. 13.

The HUB Research and Scholarship Area
"Pennsylvania's Great Treasure: The Capitol Building," Ed Simmons. Through Sept. 29.

■ Reflects an international perspective



BRYCE JORDAN CENTER

Phish coming

The improvisational rock act Phish will appear at The Bryce Jordan Center at 7:30 p.m. Thursday, Oct. 17. Tickets are \$22.50 for reserved seating and are available at The Bryce Jordan Ticket Center, selected Uni-Marts, Penn State campus outlets in Altoona, Erie, Hazleton and Reading, or by calling (814) 865-5555, or toll free at (800) 863-3336.

"Billy Breathes" is the latest project from Phish. The album is due Oct. 15 from Elektra.

Upcoming events

■ Sept. 21: Ozzy Osbourne, with guests DANZIG, Sepultura and Prong, 7 p.m.; tickets \$23 in advance, \$25 day of show (all seats reserved).

■ Sept. 24: WWF (TV Shoot), 7 p.m.; tickets \$18/\$14/\$10.

■ Sept. 28: Carman Ministries, 7 p.m.; free.

■ Oct. 1: David Copperfield, 5:30 and 8:30 p.m.; tickets \$39.50/\$29.50/\$23.50 (all seats reserved).

■ Oct. 4: Royal Lipizzaner Stallions, 8 p.m.; tickets \$14.50 for adults; \$12.50 for children 12 & under and senior citizens. Limited Gold Circle seating is available for \$17.50 (all seats reserved).

■ Oct. 7: Dave Matthews Band with special guest Boxing Gandhi, 7:30 p.m.; tickets \$22.50 (reserved seating).

■ Oct. 12: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

■ Oct. 13: NBA Preseason, Atlanta Hawks vs. L.A. Clippers, 7 p.m.; tickets \$19.50/\$15.50/\$9.50.

■ Oct. 19: Penn State Tailgate Party, four hours before kickoff; \$10 for children 12 and under.

■ Nov. 2: Penn State Tailgate Party, four hours before kickoff; \$10 for children 12 and under.

■ Nov. 9: WYNNONNA with special guest Ty Herndon, time and tickets to be announced.

■ Nov. 23: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at The Bryce Jordan Center, or for more information on any event listed here, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu/>



Lazy days

Sophomore Victoria Hyun took advantage of a break between classes to catch up on her sleep under a tree on the Old Main Lawn on the University Park Campus. It won't be long before the weather forces her indoors for her afternoon naps.
Photo: Andrea Hurley

Penn Staters

Sohail Anwar served as an invited professor at IUT Bethune, France. Sohail participated in lecture, lab and tutorial sessions on the topics of programmable logic controllers, microprocessors and electrical machines.

Robert Brooks, associate professor of wildlife ecology, received the 1996 Teaching Award for Merit from the National Association of Colleges and Teachers of Agriculture for "meritorious service to education."

Daniel W. Conway, associate professor of philosophy, chaired a workshop on "Moral Perfectionism" at the 1996 conference of the International Society for the Study of European Ideas, in Utrecht, The Netherlands. Conway also presented two papers titled "Fool's Gold? Moral Perfectionism and the Noble Lie" and "Autobiography as Auto da fe."

Kenneth J. Fisher, associate professor of engineering at Penn State Erie, The Behrend College, has been elected a Fellow of the American Society of Mechanical Engineering.

Mary M. Gergen, associate professor of psychology and women's studies at the Penn State Delaware County Campus, gave an invited lecture, "Discourses of Danger, and the Gendered Economy of Fear," at the Discourse and the Construction of Knowledge Conference, Adelaide, Australia, and also at the International Conference on Sociolinguistics, University of Evora, Portugal.

Amy K. Glasmeier, professor of regional planning and geography and senior scientist in the Graduate School of Public Policy and Administration, has been named by the Appalachian Regional Commission to serve as its John D. Whisman Appalachian Scholar for 1996-97. Glasmeier will conduct original research on a number of economic development issues affecting the 13-state Appalachian region. She will also serve as principal adviser to the commission on a broad range of new and ongoing scholarly research questions.

Drew Hyman and **Mollie Van Loon**, from the

Department of Agricultural Economics and Rural Sociology, presented a paper at the 26th International Conference of the Community Development Society in Melbourne, Australia. Based on research in Pennsylvania, the paper, "Leadership Self-Efficacy, Perceptions of Power Structures and Community Participation: An Interactionist Hypothesis," examined the relationship of psychological, sociological and political variables.

Frederick D. Loomis, director of administration for Continuing and Distance Education, has received the 1996 Margaret and Leo Goodman-Malamuth Award for his dissertation "State Policy and Planning Systems: Responses to the Mandate to Desegregate Higher Education in Virginia and South Carolina."

The annual award is presented by the American Association of University Administrators Foundation.

Virginia Mansfield-Richardson, associate professor of communications, has been elected vice president of the Chinese Communication Association. The Chinese Communication Association is an international consortium of scholars of Chinese language.

Donald M. McKinstry, associate professor of biology at Penn State Erie, The Behrend College, presented a paper titled "Toxicity in Colubrid Snakes of the World: Selected Findings from the Literature" at the 12th Annual Scientific Meeting of the Wilderness Medical Society in Kananaskis, Alberta, Canada.

Jan Scholl, associate professor of agricultural and extension education, received the Distinguished Service Award from the National Extension Association of Family and Consumer Services. The award recognizes excellence in programming at the state level.

Chester L. Wolford, professor of English and business at Penn State Erie, The Behrend College, was awarded a Sasakawa Fellowship to attend the National Faculty Development Institute on "Incorporating Japanese Studies into the Undergraduate Curriculum."

Promotions

Staff

Robert Asch, associate director II in Division of Development and Alumni Relations.
Lisa A. Baker, staff assistant VI in Applied Research Laboratory.

Mary M. Ban, coordinator, CDM, at The Hershey Medical Center.
Steven L. Barber, senior technical specialist in Research and Graduate School.

Diane J. Baronak, staff assistant VII in Research and Graduate School.

Robert A. Becker, project coordinator II in Office of Physical Plant.

Kimberly J. Boyer, CADD operator/project coordinator at The Hershey Medical Center.

Sherry A. Brennan, senior research coordinator in Division of Development and Alumni Relations.

Lynda M. Brockmeyer, staff assistant IV at Penn State Abington Ogontz Campus.

Paula M. Brown, staff assistant VI in College of the Liberal Arts.

Sharon Bywater, staff assistant VI in Division of Development and Alumni Relations.

Jean E. Brooks, staff assistant VIII in College of Health and Human Development.

Bruce A. Cash, coordinator, Network Support, at The Hershey Medical Center.

Andrea D. Christopher, director, student affairs II at the Penn State Mont Alto Campus.

Gregory J. Clemmer, drafter/designer electro-mechanical in Applied Research Laboratory.

Kimberly A. Colpetzer, library assistant II in Research and Graduate School.

Denise C. Connelly, staff assistant VI in College of Agricultural Sciences.

Nancy F. Crabb, manager, publications/public relations, at the Penn State Great Valley Campus.

Linda R. Cranston, coordinator, Outpatient Billing & Registration, at The Hershey Medical Center.

Shirley Davis, alumni & development specialist in University Libraries.

Elizabeth Day, assistant coordinator, research funds, in College of Earth and Mineral Sciences.

Amy M. Dean, patient account assistant at The Hershey Medical Center.

Randall C. Deike, director, Data Analysis Applications Services, in Undergraduate Admissions, Office of the Vice Provost for Enrollment Management and Administration.

Catherine W. Dittman, staff assistant V in College of the Liberal Arts.

Carol T. Dowling, project coordinator II in Office of Physical Plant.

Jo Ann L. Dreibeis, administrative assistant II in College of Education.

Kathryn E. Smith, manager, Support Services, in Office of Physical Plant.

Melinda Stearns, director, client development, in Continuing and Distance Education.

Leann Stenger, financial analyst at The Hershey Medical Center.

Beverly Vagnerini, supervisor, Computer & Information Systems at Penn State Mont Alto Campus.
Lisa Witt, medical records supervisor in Student Affairs.

Technical Service

Barbara Bush, animal care technician, group leader, at The Hershey Medical Center.

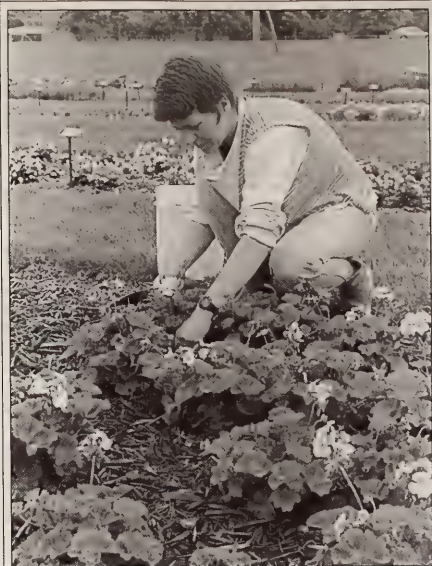
Andrew Elzenberger, supervisor, Area Services, in Office of Physical Plant.

William Marks, facility renovator at The Hershey Medical Center.

Frederick Pantelich, facility renovator at The Hershey Medical Center.

Anthony Pizzuto, maintenance mechanic A in Continuing and Distance Education.

Michael Shindle, painter/maintenance welder at Penn State Mont Alto Campus.



Tending the garden

Solveig Lind-Iversen, a graduate student in the Department of Horticulture, spent a cloudy morning weeding in the University's Horticultural Trial Gardens off Park Avenue on the University Park Campus. Students from the department held their annual show Sept. 14-15.

Photo: Andrea Hurley

Benefits of CQI evident in many different areas

Mention Continuous Quality Improvement (CQI) projects, and many people tend to think of shorter lines and less waiting for University services, improved turn-around time and reduced paperwork. Those perceptions are accurate, as far as they go, but they don't go far enough.

CQI also fosters new collaborative relationships, helps bring changes in the classroom and enhances the teaching and learning process, according to a report given to the Board of Trustees on Sept. 6.

"CQI continues to make a difference at Penn State," said Louise Sandmeyer, executive director of the just-created Center for Quality and Planning. "Efforts made by CQI process improvement teams are bringing about a higher level of 'customer satisfaction' among students, faculty, staff and others we serve, tangibly and measurably increasing service delivery and performance, and helping to ensure high academic and administrative quality at Penn State."

Effective Sept. 1, the Center for Quality and Planning was created through the merger of the Center for Continuous Quality Improvement (formerly headed by Sandmeyer) and the University's Office of Planning and Analysis. The intent of the restructuring is to better integrate and intensify the University's efforts in continuous quality improvement and strategic planning.

Overall, Sandmeyer said, the minimum value of the time saved each year through the efficiency improvements of CQI teams is an estimated \$1.2 million. Citing examples from a new brochure, she said that CQI teams have:

- Increased the amount of assistance given to first-year students in choosing courses and scheduling classes. At the same time, a team evaluating Freshman Testing, Counseling and Advising Program processes

"Efforts made by CQI process improvement teams are bringing about a higher level of 'customer satisfaction' among students, faculty, staff and others we serve."

Louise Sandmeyer
executive director
Center for Quality and Planning

- reduced paperwork by 50 percent and saved \$60,000 in staff time.

- Improved the teaching of basic library skills to lower-division students. A University Park basic library skills team and a Penn State Altoona Campus bibliographic instruction team revised the workbook for English 15, a composition course for all freshmen, thus improving instructional effectiveness and student satisfaction.

- Enabled the Commonwealth Campuses to follow up more quickly with area applicants to Penn State. Automated information updates enhance communication with the campuses and saves coding and keyboarding time that is valued at \$49,400 a year.

- Enabled the Office of Sponsored Programs to notify faculty members they have received a grant on the same day the office logs the award. Getting the information so quickly enables faculty to keep their projects going, rather than experiencing two to eight weeks of project delays. Time saved by reducing the number of phone calls between the colleges and the office is valued at \$5,528 each year.

- Decreased from 20.3 days to 15.4 days the average wait for interlibrary loans to come through, while requests increased from 17,022 to 22,054.

Scholarship applications to be accepted until Oct. 18

Applications for the Edward L. and Dessa B. Keller Memorial Scholarship are being accepted until Oct. 18.

The scholarship was established by Edward W. Keller to honor his father and mother. One or more scholarships ranging from \$400 to \$2,000 may be awarded each year. Keller served Penn State as vice president for public affairs and director of Continuing Education.

All Penn State graduate and undergraduate students enrolled full time or part time in either regu-

lar or extended degree courses are eligible for the scholarship. Additional consideration will be given to Continuing and Distance Education staff members enrolled in adult education doctoral programs or those participating in an internship at the Washington, D.C., office of the University Continuing Education Association.

Application forms are available from Sandra Rothrock, 507 Keller Building, University Park, Pa. 16802; phone (814) 863-7752.

BOOK SHELF

CRC Press has published *Body Fluid Balance: Exercise and Sport*, edited by Elsworth R. Buskirk, professor emeritus of applied physiology at Penn State, and Susan M. Fuhl of SUNY at Cortland. The book covers mechanisms for controlling fluid ingestions (thirst), gastrointestinal handling of fluids, fluid replacement considerations and other related topics.

David Esposito's book *The Legacy of Woodrow Wilson: American War Aims in World War I* has been published by Praeger. Esposito also has been informed by the Council for the International Exchange of Scholars that he has been awarded a senior Fulbright Fellowship to study and teach abroad in Indonesia. He will be leave this month to teach American history at the University of Diponegoro in solo on the island of Java.

Bobby Pfau, instructor in the Department of Kinesiology, and Mary Ellen Litzinger, education librarian, are the authors of *Creating Connections*, published by Kendall/Hunt Publishing Co. The book and companion audiocassettes offer a four-step program for managing stress.

The American Psychological Association has published *A Guide to Psychotherapy and Aging: Effective Clinical Interventions in a Life-Stage Context*, edited by Steven H. Zarit, professor of human development and associate director of the Gerontology Center, and Bob G. Knight. The book is a comprehensive overview of clinical interventions with older adults.

Appointments

Mont Alto names center director

Nanette Hatzes has joined the Penn State Mont Alto Campus staff as the director of the Learning Center. Hatzes served at Mount Saint Mary's College in Emmitsburg, Md., as the director of disability services, reading and study skills.

Her duties as Mont Alto's Learning Center director include providing

direct services to students with disabilities on campus, supervising a staff of professional and peer tutors, overseeing the supplemental instruction program and study skills workshops and starting a support group for students with disabilities.

Hatzes is currently in the final phases of defending her Ph.D. dissertation at the University of Connecticut. She received her B.A. from the University of Maryland and a master's of education from Western Maryland College. Before working at Mount Saint Mary's College, Hatzes taught second-level students with learning disabilities for more than 10 years.

A member of the American Psychological Association, the Association for Higher Education and Disability, the Council for Exceptional Children and the Learning Disabilities Association of America, Hatzes plans to continue her various areas of research.

Sociology professor becomes head of department

Barrett A. Lee, professor of sociology, has been named head of the Department of Sociology. He is a specialist in urban sociology, social demography, community and race/ethnicity.

Lee, who came to Penn State in 1990 as an associate professor of sociology and senior research associate, Population Research Institute, was named a senior scientist of the institute in 1993.

He previously was on the faculty at Vanderbilt University and director of its Urban Studies Interdisciplinary Program.

At Penn State, Lee has served since 1994 as a co-director of the "Minority Opportunities Through School Transformation" (MOST) program, administered by the American Sociological Association with funding from The Ford Foundation.

He has been the project director or principal investigator for two National Science Foundation grants and 10 other grants. He is the author or co-author of more than 40 scholarly articles and book chapters. Since 1984 he has served on the editorial board of *Social Science Quarterly*. Lee was on the edi-



Nanette Hatzes

torial board of *American Sociological Review* from 1988-1990 and *Sociological Quarterly* from 1990-1993. He has served on review panels for NSF and the National Institutes of Health.

Lee has been a faculty mentor at Penn State for the Minority Summer Research Opportunity Program of the CJC and for the Population Research Institute. Among his research consultancies are the National Institute of Justice, the U.S. Bureau of the Census, the U.S. Public Health Service and the Seattle Mariners baseball team.

Lee received his B.S. in sociology from the University of California, Riverside; and M.A. and Ph.D. degrees from the University of Washington.

Associate professor takes on duties as director of graduate program

Margaret M. Lyday, associate professor of English and women's studies in the College of the Liberal Arts, has been named director of the Graduate Communication Enhancement Program in the Graduate School.



Margaret M. Lyday

Lyday holds a Ph.D. in English from The Catholic University of America in Washington, D.C. She joined the Penn State Hazleton Campus faculty in 1978, subsequently moving to the Penn State Allentown Campus and then to University Park in 1990. She served as associate dean for the Commonwealth Educational System from 1990 to 1995, and as associate dean for undergraduate studies in the College of the Liberal Arts from 1993 to 1995. She currently serves as the College of the Liberal Arts representative to the Senate Council, as a member of the Senate Faculty Rights and Responsibilities Committee, and on the executive committee of the Commission for Women.

For the last eight years, Lyday has directed the Lehigh Valley Writing Project, a site of the National Writing Project, which works with faculty to develop the writing skills of their students. This year she was awarded a four-year grant from the Dewitt Foundation to develop programs for teachers of bilingual students.

The Graduate Communication Enhancement Program emerged from the University Future planning process in which the editorial functions of the Graduate School's Thesis Office were largely eliminated. A portion of the savings from that move was redirected toward a proactive approach to communications skills improvements among graduate students. In her new half-time responsibilities with the Graduate School, Lyday will work with colleges, department and directly with students to develop and assess various kinds of workshops, courses, computer-based interactive approaches and other forms of intervention aimed at assisting graduate students in sharpening their communications skills early in their graduate programs.

New director of academic affairs comes on board at campus

Jeffrey Perkins has joined the Penn State Mont Alto Campus as director of academic affairs. Perkins

replaces Ronald Keiper who retired on July 31.

Perkins comes to Mont Alto from the Naval Post-Graduate School in Monterey, Calif., where the taught material engineering since 1972. Before that, Perkins taught at Youngstown State University in Ohio. A native of Yardley, Pa., he received his B.S. from Drexel University and his M.S. and Ph.D. from CASE Institute of Technology.

At Mont Alto, Perkins plans to teach physics and chemistry when needed. He also plans to become an active campus community member.

Director of Center for Nursing at Hershey appointed

Linda C. Pugh has been appointed director of the Center for Nursing Research at The Milton S. Hershey Medical Center.

Pugh earned both her B.S.N. and M.S. degrees in maternal child health from the University of Maryland at Baltimore. She also received her Ph.D. in nursing from the University of Maryland.

She came to Penn State from Johns Hopkins University, where she was an assistant professor coordinator of maternal-newborn nursing and coordinator of undergraduate research. Previously, she had academic appointments at York College of Pennsylvania and Williamsport Hospital School of Nursing. She also has previously held a post as a pediatric staff nurse at St. Joseph's Hospital, Towson, Md.

Since 1990, Pugh has been a member of the Nursing Practice Expert Advisory Panel of the United States Pharmacopeia Division of Information and Development. As one of 35 information-related expert advisory panels, the panel is responsible for the ongoing revision and development of USP's continuously revised, evidence-based drug and therapeutics information database, particularly as related to nursing practice.

Pugh is also a consultant on practice issues in maternal child health for the Pennsylvania Nurses Association.

Schuykill names director of student affairs and marketing

Alisa A. Rhoades has been appointed the assistant to the director of student affairs and marketing at the Penn State Schuylkill Campus.



Alisa A. Rhoades

A resident of Mahanoy City, Rhoades attended Penn State and received her bachelor's degree, magna cum laude, from King's College in 1994. She has served as a substitute teacher in the Mahanoy Area School District and a therapeutic support staff member at Schuylkill Mountain Center.

During the past academic year, she was an instructor at the McCann School of Business. In her new position, Rhoades will be responsible for campus student activities, student recruitment and a number of areas designed to enhance the students' out-of-classroom experience.

Partings

OAS Information Center manager ends career where he started it

John A. Winter, manager of the Information Center, Office of Administrative Systems, retired July 15 and celebrated his parting near the same place he began his professional career.

Winter, who spent 27 years with the University, held his retirement party near the Gilpin Room at The Nittany Lion Inn — the place where he and 11 others received their degrees in 1956. Winter received a bachelor's degree of arts and letters and a minor in Russian studies. His minor led to his first job as an intelligence agent with the National Security Agency. Winter also worked for General Electric and HRB-Singer Inc. before coming back to the University in 1969.

He served as a senior systems analyst until 1972, when he became manager of user services for Management Information Systems. Four years later, he became manager of public and auxiliary services. Both jobs were in the office that became OAS. In 1983 he was named manager of the Information Center.

From 1991 until his retirement, he also

served as a research analyst, consultant and facilitator for Continuous Quality Improvement. And from 1993-1995, he served as director of the EXEMPLAR Administrative Support Office.

Creating software that helped University employees do their work more efficiently was the most gratifying part of his job, Winter said. He helped create such systems as the automated mailing system and the season football ticket system.

After making other people's lives easier, Winter said he is ready to relax. Although he will continue to serve as a patroller for the Penn State Outing Club Ski Patrol, Winter said he and his wife, Kathleen, plan to do some traveling, taking their mountain bikes all over the United States.

The Winters, both Altoona natives, have two children — Mark and Jennifer — who graduated from Penn State. While their children live and work out of town, the Winters plan on staying in State College.

Associate professor gains emeritus rank

William H. Parsonage, associate professor of administration of justice and health education, has retired with emeritus rank after 29 years at Penn State.

Professor Parsonage joined the University faculty in 1967 as an assistant professor of law enforcement and corrections in the College of Human Development. He became an associate professor in 1973 and served as the assistant dean for Commonwealth Education and International Programs, College of Human Development, from 1984-87.

He was associate dean for Commonwealth Educational System programs, College of Health and Human Development, from 1987-88. In 1989, he returned to teaching and research, rejoining the Department of Administration of Justice, which had moved to the College of the Liberal Arts.

In his retirement, Parsonage will continue his research and consulting in the area of violence and victimization of justice and related human service workers. He also plans to spend a good bit of his time sailing.



William H. Parsonage

Research assistant returns to campus daily

Although she officially said farewell to the University July 30, Kathleen S. Mourant, research assistant in the Research and Graduate School, hasn't forgotten her co-workers.

Mourant, who began working part time for the University in 1969 and became full time in 1971, said she still finds her way back to the University Park Campus for a few hours a day. Mourant continues to serve as a consultant for the research journal *Cement and Concrete Research*. This gives her an opportunity to not only help out, but to keep in contact with her former co-workers.

Throughout her years at the University, Mourant said it is the relationships she formed with co-workers that stand out the most. Mourant's ties to the University run deep. She received a bachelor's degree in

home economics in 1957 from Penn State and a master's degree in human development in 1969, also from Penn State. Having lived here since she was 4 years old and the fact that her parents were on the faculty, she said, influenced her decision to attend the University.

Mourant's husband, the late Paul Mourant, also served on the faculty. Three of their four children took classes at Penn State: Stephen, spent one year at the University before transferring; Renee and Paula both received associate degrees from the University; and Richard attended college in Williamsport.

Her children have left the area, but Mourant said she has no intentions of leaving.

"It's a good place to live," she said.

Art history professor retires; book due soon

Roland E. Fleischer, professor of art history, retired in July after having taught at Penn State since 1974. Fleischer, a specialist in both 17th-century Dutch painting and colonial American painting, is currently co-editing *Rombrant, Rubens and the Art of Their Times: Recent Perspectives Papers in Art History from The Pennsylvania State University*, Vol. XI. The volume is due to be published in early 1997.

Aside from bringing his dual specialties to Penn State, Fleischer was the guest curator at a 1988 exhibition of the works of Gustavus Hesselius, the first Swedish-born painter in Colonial America. The exhibition, part of the 350th anniversary celebration of New Sweden, was the first of Hesselius in 50 years, and existed in its current form because of Fleischer's work in properly attributing numerous unsigned paintings to the artist. Fleischer's publication, *Gustavus Hesselius: Face Painter to the Middle Colonies*, accompanied the exhibition, that ultimately attracted King Karl Gustav XVI and Queen Silvia of Sweden.

In 1989, Fleischer was appointed a Fellow of the Institute for Arts and Humanistic Studies and in 1990, he received the Faculty Scholar Medal for Arts and Humanities following the publication of three important works which combined his specialties of Northern European Baroque and colonial American painting. Fleischer has published many reviews, articles, exhibition catalogs and books. His monograph, *Ludolf de Joching: Painter of Rotterdam*, was published in Holland and he contributed entries to *The Dictionary of Art* (Macmillan Publishers) and *American National Biography* (Oxford University Press). Most recently, in 1993, Fleischer received an honorary doctorate of fine arts from his undergraduate alma mater, Western Maryland University.

Fleischer received his master's and doctoral degrees from Johns Hopkins University and, during his time at Johns Hopkins, was awarded a Fulbright scholarship to study in Amsterdam. Before coming to Penn State, Fleischer was an instructor at Johns Hopkins, an associate professor at the University of Miami and a professor at George Washington University.

Fleischer's current plans are to remain in the area with his wife, Alice, to fish a great deal and to work on his latest book, *Abraham Hondius: Painter of Holland and England*.



Roland E. Fleischer

Associate professor served Behrend College for 33 years

Roger Sweeting, associate professor of exercise and sports science, retired after 33 years of service at Penn State Erie, The Behrend College.

Sweeting began his Penn State Behrend career in 1963 after earning a master's degree in physical education at the University Park Campus. He received his doctoral degree from the University of Illinois in 1972.

Sweeting was the recipient of the 1984 Penn State-Behrend Council of Fellows Excellence in Teaching Award.

He is a former member of the University's Faculty Senate, the Academic and Physical Planning Committee, and the Academic and Athletic Standards Committee.



Roger Sweeting

■ Rape Aggression Defense System Course teaches women defense skills

The Rape Aggression Defense System is a comprehensive self-defense system for women taught by certified instructors from the law enforcement community. University Police Services is offering two RAD courses on the University Park Campus—one in October and one in November—over a series of days to teach women various skills.

The program includes awareness, prevention, risk reduction and avoidance, as well as options available to women during a confrontation or attack. RAD uses extensive hands-on training to develop self-defense as one of these options, and includes carefully selected, realistically employable defense tactics which are easy to learn and easy to retain.

The first course is set for Oct. 1, 3, 8 and 10 from 6:30 to 9:30 p.m., in the Physical Plant Conference Room; the second course will take place Nov. 10, 17 and 24 from noon to 4 p.m., in 133F Johnson Commons.

The course fee is \$12 per person, which covers the cost of the comprehensive manual issued to all students. This fee also includes a free lifetime practice policy, which encourages women who have completed the course to return to any RAD class and practice free of cost with a certified instructor.

If you have any questions, or wish to register for one of the classes, contact Police Services at the following address: Penn State University Police Services, Crime Prevention Office, 26 Eisenhower Parking Deck, University Park, Pa. 16802; or by phone at 863-1111; or through e-mail: carlson@police.psu.edu.



In your face

RAD instructors Jack Quick (left) and Cindy Carlson Shellow demonstrate RAD self-defense techniques.

Photo: Courtesy of University Police Services

Services, Crime Prevention Office, 26 Eisenhower Parking Deck, University Park, Pa. 16802; or by phone at 863-1111; or through e-mail: carlson@police.psu.edu.

Program marks 50 years of learning

The Recreation and Park Management Program in the College of Health and Human Development will celebrate its 50th anniversary with an alumni reunion Sept. 20 and 21.

Among the activities that weekend are:

—Bus tours of campus, with undergraduate and graduate students from the program as guides; a bus tour to Stone Valley and Shaver's Creek.

—A golf tournament on the Penn State Blue Course, hosted by program founder **Fred Coombs** and students in the professional golf management option.

—An informal reception at Café Laura and a banquet at the Nittany Lion Inn.

Although Penn State has offered a curriculum in recreation and park management since 1946, a recre-

ation course appeared in the Penn State College Bulletin as early as 1919.

Today the program is called recreation and park management (previous names, in addition to recreation education, include leisure studies and recreation and parks) and is a part of the School of Hotel, Restaurant and Recreation Management. Nearly 500 undergraduate and graduate students are enrolled—a long way from the 11 students in the first year of the major. The program's peak enrollment was more than 700, in the early 1970s. Altogether, more than 3,200 alumni have earned degrees from the program.

More information is available by calling (814) 865-1851.

Unity Days slated to begin in October

The University community is invited to take part in Penn State Unity Days, a series of events that spans two semesters. Unity Days kicks off Wednesday, Oct. 2, with Hands Across Penn State—a human chain formed as faculty, staff and students hold hands at Penn State sites around the Commonwealth. Following Hands Across Penn State will be talks by a number of students, faculty and staff who will address the importance of developing a multicultural environment.

"Building Coalitions Through Education, Awareness and Cultural Sensitivity" is the theme of this year's Unity Days, which will continue on Nov. 5 and 6 with a conference at the HUB on the University Park Campus. The conference will promote an appreciation and understanding of diversity issues related to race/ethnicity, religion, gender, sexual orientation and disability and will offer ways in which the community can work together to promote diversity and safe, comfortable environments for all people. Following the conference, Unity Days continues with a variety of programs and activities sponsored by student organizations.

Penn State Unity Days is sponsored by the Multicultural Resource Center and Project Growth, along with other student groups. For more information about events, call Elisha Nixon at (814) 865-1773.

Schreyer Institute seeks 30 proposals to fund

The Schreyer Institute for Innovation in Learning is looking for new uses of active and collaborative learning in undergraduate classes. Faculty members have until Oct. 15, and Jan. 21, 1997, to submit proposals for innovations to run in the fall 1997 semester. It is recommended that you apply to the early deadline. The second deadline will fill spaces that are still open after the first review. Funding for 30 projects for the semester is anticipated.

Selected proposals are supported with funding for student interns to work with faculty in designing and coordinating new learning experiences. In addition, faculty members can use instructional design consultants, project assessment and team training resources provided by the institute. Project faculty also participate in bi-weekly workshops and conversations that use PictureTel to reach the Commonwealth Campuses.

For application forms and more information, call (814) 865-8681; e-mail INOV8@psu.edu; or visit the institute's Web site at <http://www.inov8.engr.psu.edu/>.

25-year Awards



Gerald W. Anderson



Cheston M. Berlin



David L. Custer



Rosemary Wyzykowski



Terry J. Peavler



Vicki L. Spadaccio

Gerald W. Anderson, project coordinator in the Environmental Resources Research Institute, Office of the Senior Vice President for Research and Graduate Education; Dr. Cheston M. Berlin Jr., professor of pediatrics and pharmacology and chief of the Division of General Pediatrics; David L. Custer, manager, Research Computer Facility; and Rosemary Wyzykowski, medical technologist, Microbiology Laboratory of the Clinical Laboratory, all at The Hershey Medical Center; Terry J. Peavler, associate dean for undergraduate studies and professor of Spanish in the College of the Liberal Arts; and Vicki L. Spadaccio, contracts and proposals specialist for the Office of Sponsored Programs, in the Office of the Senior Vice President for Research and Graduate Education.

Studies show perfectionism can be good for the perfectionist

By PAUL A. BLAUM
Public Information

Past studies have generally viewed perfectionism as an attribute based on the possession of excessively high standards for performance and thus a cause of problems for people. Penn State researchers are examining that proposition.

"Recent studies simply do not support the contention that having lofty personal standards or being highly organized is, per se, a negative psychological trait," Robert B. Slaney, professor of counseling psychology in the College of Education, said. "Indeed, our results indicate quite the contrary. Nor was it found that high standards were related to relationship problems or tendencies to procrastinate, as the literature has suggested."

Slaney and Jeffrey S. Ashby, assistant professor of educational administration and counseling at the University of Northern Iowa, are co-authors of *Perfectionists: Study of a Criticism Group*.

They conducted an interview of 21 women and 16 men who labeled themselves perfectionists or who had been labeled as perfectionist by their advisors or peers.

The group tended to be highly educated and was primarily, but not exclusively, composed of undergraduate students, graduate students and junior and senior university faculty, Slaney said.

"The participants who viewed themselves as perfectionists had a clear tendency to set high standards of achievement and performance as central to their own perfectionism and to the essence of perfectionism," Slaney said.

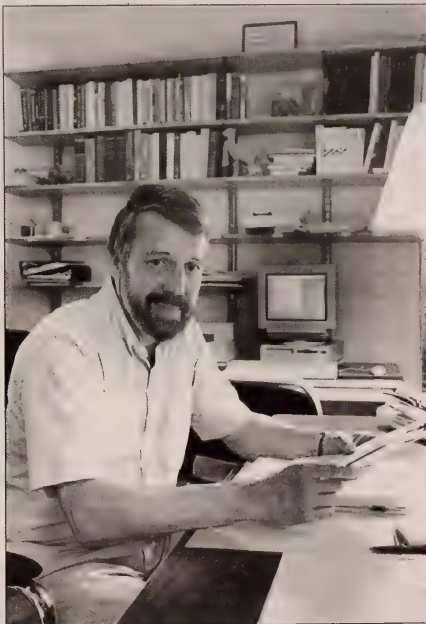
Many of the perfectionists also included neatness, efficiency and orderliness as key elements of their perfectionism.

"These two characteristics of perfectionism — high standards and orderliness — do not by themselves create serious psychological or social burdens for the perfectionist," Slaney said.

"However, the third characteristic of perfectionism — what we call the discrepancy factor — can cause major difficulties," Slaney said. "People who have high standards often feel they don't meet those high standards. It is this discrepancy between their aspiration and their sense of fulfillment that is related to such problems as persistent worry,

"Recent studies simply do not support the contention that having lofty personal standards or being highly organized is, per se, a negative psychological trait."

Robert B. Slaney
professor of counseling psychology



It is the discrepancy between a perfectionist's high standards and his perception of not meeting those standards that causes problems, not the perfectionism itself, according to Robert B. Slaney, professor of counseling psychology.

Photo: Greg Grieco

depression, anxiety, low self-esteem and procrastination."

The irony is that the discrepancy factor does little to improve achievement and can actually interfere with it.

Almost all participants who were

interviewed saw some measure of distress connected with their perfectionism. Yet, when the research team asked them if they would give up their perfectionism if they had a choice, none agreed to do so, regardless of the distress.

Clinical trial seeks breast cancer patients

A unique approach to treating breast cancer is being evaluated at The Hershey Medical Center as part of a comprehensive international study. The clinical trial is now accepting women with advanced breast cancer who produce excessive amounts of a protein produced known as HER2.

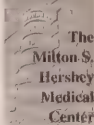
The Hershey study will test a new antibody to counteract the overproduction, or overexpression, of HER2. An excess of HER2 is often an indication of more serious or faster progression of breast cancer. Women who overexpress HER2 — about a fourth of the 180,000 women diagnosed with breast cancer each year — also have a greater risk of disease progression after receiving standard treatments, such as chemotherapy, and a lesser chance for long-term survival.

Dr. Allan Lipton, professor of medicine, chief of oncology and principal investigator of the Hershey study, is optimistic that the antibody may inhibit tumor growth and, therefore, slow the progression of cancer.

"This is a new, front-line approach to the disease, one that specifically targets the HER2 receptor," Lipton said. "Based on previous HER2 trials, I am hopeful that this new study may yield positive results."

The purpose of the current Phase III clinical trial is to demonstrate whether the HER2 antibody is a safe and effective drug. Phase III is the final step required to file a marketing application with the U.S. Food and Drug Administration. Patients enrolled in the study receive chemotherapy and the HER2 antibody or chemotherapy alone. Because the HER2 antibody is designed to mimic a natural human antibody, Lipton and other researchers hope the therapy has few side effects and does not contribute to the toxic side effects of other chemotherapeutic agents.

The Phase III trial will evaluate 450 patients in about 100 North American hospitals. To be considered for the trial, women must be between the ages of 18 and 75, have a recurrence of breast cancer that has metastasized to other parts of the body and produce excessive amounts of HER2, based on a screening test. Lipton predicts patients will be recruited for the study over the next year and a half. To learn more about participating in the trial, contact Lipton or Elise M. Givant, R.N., Hershey Medical Center, at (717) 531-8677 or call (800) 821-8590 for more information.



ATHLETICS

A regular column provided by Intercollegiate Athletics

Former Lady Lion back

Former Lady Lion basketball standout **Katina Mack** has been named to an assistant's position in athletic development. One of Mack's primary duties will be to serve as the coordinator for the "Rene's List" fund-raising initiative which helps finance the televising of Penn State's women's basketball and other events, as well as the "Center Court with Rene Portland" magazine show.

Emmy nominations

"The Penn State Football Story" and "Penn State Hoops," two television presentations focusing on Nittany Lion sports, have earned four Mid-Atlantic Region Emmy Award nominations for 1995-96. Both programs are produced for the athletic department by D'Elia, Wiotkowski Productions in Pittsburgh and seen throughout Pennsylvania and the nation.

Coaching assistants

■ Penn State graduate and former track captain **Dayna Holston** has joined the athletic staff as a coaching assistant in women's track. An All-Big Ten Academic selection, Holston is from Washington, Pa.

■ **Rene Lyst**, a 1993 graduate of Penn State, has been named the women's gymnastics team's new assistant coach.

Lyst had been the assistant women's gymnastics coach at the University of Massachusetts from 1993 until this year.

■ **Jason Baker**, a 1994 graduate of the University of Puget Sound, has been selected as the new assistant softball coach.

This past year, Baker was the assistant softball coach at the University of Oregon.

For the Record

In the academic promotions listing which appeared in the July 18 issue of *Intercom*, Marilyn Daniels, associate professor of speech communications, was incorrectly listed.

In that same listing, the name of **Pierre Kerszberg**, professor of philosophy, was missing.

Carpoolers

Carpooler(s) wanted to drive from Philipsburg to University Park. Work hours are 7:45 a.m. to 4:45 p.m. Call Don at 865-7525 or Ken at 865-2534, or send e-mail to tk22@as.psu.edu



Practice makes perfect

O. Richard Bundy, associate professor of music, observes the Blue Band from his perch atop a director's stand during a rehearsal. Bundy took over as director of the Blue Band when Ned C. Deihl retired earlier this summer.

Photo: Greg Grieco

Population Research Institute awarded grant

The Hewlett Foundation recently awarded the Population Research Institute and graduate program in demography a three-year grant for training and research in international demography. The \$330,000 grant is co-directed by **Gordon F. De Jong**, distinguished professor of sociology and director, graduate program in demography; **Gretchen Cornwell**, assistant professor of rural sociology; and **Daniel T. Lichter**, professor of sociology and director, Population Research Institute.

The award provides stipend and tuition grants for predoctoral third-world students in the graduate program in demography. It also supports collaborative international

demographic research projects of Population Research Institute faculty. The demography program is a dual-title intercollege graduate degree program with six participating departments: sociology, anthropology, economics, agricultural economics, rural sociology and human development and family studies.

This is the fifth award from the Hewlett Foundation which has continuously supported the Population Research Institute and graduate program in demography since 1982. Over these 14 years, Hewlett funds have provided tuition and stipends, dissertation research grants and graduate program development funds for 56 international students.

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"Violence will not destroy our resolve to be a community that cherishes the dignity, the safety and the worth of every human being."

— The Rev. Carl Synan at memorial service

After the tragedy, a time to heal



Mourning our loss

Students and others pay tribute to shooting victim Melanie Spalla during a memorial service on the HUB lawn of the University Park Campus Monday, Sept. 23. Hundreds of students, faculty, staff and community members joined campus ministers and the Spalla family for the service.

Photo: Andrea Hurley

Memorials, prayers help campus cope in aftermath of shootings

By ANNEMARIE MOUNTZ AND LISA M. ROSELLINI
Public Information

University Park—Just minutes after a sniper opened fire Sept. 17 on the lawn of the Hetzel Union Building, killing one student and wounding another, University employees and students rushed to the scene to not only help the physically injured but to heal the emotional wounds.

The heroics displayed that rainy morning are numerous, according to witnesses: a student, Brendon Malovitz, wrestled a high-powered rifle from alleged gunman Jillian Robbins; another student pulled felled victim Nicholas Mensah to safety; nursing instructors and staff members risked their lives to comfort Mensah and begin treating his abdominal wound; ambulance personnel and University police were on the scene in minutes; and counselors came out in droves to help stem the tide of emotions that would follow.

The attack, which began at 9:34 a.m., lasted little more than a minute but left 21-year-old Melanie Spalla of Altoona dead. In that

■ From the president In the wake of a campus tragedy

The tragedy of September 17 has left a great sadness in the hearts of everyone at Penn State. It was something that many people thought could never happen here, and the thoughts and prayers of the entire University community are with the families of the victims.

This random and senseless shooting is a reminder that no community is immune to violence. For many years, Penn State has been one of the safest universities in the country.

See "Together" on page 3

Student volunteerism runs high at University

By LISA M. ROSELLINI
Public Information

New numbers collected on the volunteer activity undertaken by Penn State students shows that in 1995-96, more than 13,620 students volunteered 255,964 hours of their time—in large part, due to the urgings of faculty members.

In dollar amounts, this effort is estimated to be worth more than \$1 million to communities across the state. Add to that the money raised by students participating in the Interfraternity Council/Panhellenic Dance Marathon, and the figure leaps to more than \$2.2 million.

The figures, supplied by the AT&T Center for Service Leadership on the University Park Campus, were compiled by Pennsylvania Campus Compact—a statewide organization created by university and college presidents that annually publishes an inventory of student activities for institutions across the state. Since 1989, the campus compact has sought volunteer activity numbers from member institutions. Currently, 58 institutions in the Commonwealth belong to the organization. The full report of all participating institutions in the state will be available by mid-October.

"Penn State has a lot of commitment from a lot of students," La-Verna J. Fountain, executive director of Pennsylvania Campus Compact, said. "Clearly the service movement has taken off and without question, one of the reasons for this is because of faculty involvement. Faculty are changing the face of service tremendously."

Fountain was referring to courses that now carry a service component. The executive director said the service requirement is generally incorporated to help students apply theory to general practice or to help them grasp a "deeper" concept.

Melissa Frank-Alston, program director of volunteer programs and services at Penn State, said another reason for the increase in student participation is due to society's renewed emphasis on service and the changing values of the students themselves.

"I think students are being exposed to volunteer services at a much younger age, so they are coming in with the idea that service is a natural part of the educational process, part of a valuable education," she said. "Students are coming into the college environment seeking more opportunities. We have definitely seen an increase."

Frank-Alston said although the numbers compiled for Penn State indicate an increase in hours volunteered, jumping by more than 43,000 hours over the past year, the figures are still not an accurate reflection of what goes on through-

See "Volunteers" on page 3

See "Healing" on page 2

Healing

continued from page 1

short time frame the sniper had managed to shatter the lives of many and the sense of security on the University Park Campus.

Students who had been eyewitnesses to the shootings began to seek refuge in nearby Henderson Building, and staff from the Center for Counseling and Psychological Services (CAPS) were quickly deployed to several locations to help students deal with the trauma.

"For years we have prepared for any and all disasters. I gathered my staff and things fell together," Dennis Heitzmann, a psychologist and director of CAPS, said. "Some students were responding immediately to the shooting, some appear relatively unaffected for now. We anticipate there will be much follow-up in the coming weeks. It's a very emotional time for everyone, and although we are dealing mostly with students we can see that it has touched everyone on campus. This is not something that is emotionally wrenching only for CAPS staff or students."

As soon as word of the tragedy reached the Helen Eakin Eisenhower Chapel, those at the facility went into action. The Rev. Fred Byrne, director of the Penn State Catholic Center, the Rev. Ed Messersmith, director of the campus Episcopal ministry, and the Rev. Carl Syman, director of the United Campus Ministries, rushed to the HUB to meet with colleagues from across the University to work out a plan.

Soon after the meeting, the first student was at the door in 204 HUB, a counseling in-take center. Counseling services were available immediately in the Harshbarger Room at the chapel and a counseling in-take center was set up in 206 Henderson, while counseling staff in 220 Ritner Building waited for the onslaught. Employees were urged to contact Penn State's Employee Assistance Program and evening discussion sessions were set up at various residence halls and at the HUB.

Rev. Byrne walked the halls of the second floor of the HUB, stopping in offices to offer comforting words or to listen to those with windows facing the HUB lawn described the horror that had unfolded before them.

"People were quite traumatized because they saw and heard everything from the second floor," Byrne said. "Melanie has become the average Penn Slater to anyone who has anything to do with Penn State. Even though they may not have known her personally, they feel so terribly violated."

That sentiment, according to Heitzmann, is just one of the many emotions people will deal with in the coming weeks.

Many people are trying to reconcile the fact that this incident occurred in "happy valley" and yet they can still feel safe on campus, Heitzmann said. "That's a wide chasm to leap."

"But based on the University's safety record, this is unquestionably a relatively safe place to be," Heitzmann said.

During one of the many press conferences that followed the shootings, Dave Stormer, assistant vice president for University Safety, said over the past year the University Park Campus has logged a rate for violent crimes of less than 2 percent, while Pennsylvania shows a rate of 13 percent for violent crimes committed.

"People are probably safer here than they are at home," Stormer said.

There is just a sense of suspended belief," Ken Clarke, acting director of Religious Affairs, said. "People often think that this is the kind of incident that could not happen here. Unfortunately we've



Tough job

University student and peer counselor Megan Dolbin speaks with the media before the Wednesday, Sept. 18, student meeting in the HUB Ballroom, where students met with a panel to discuss Tuesday's shooting. Dolbin was one of many counselors on the scene immediately following the shootings.

Photo: Andrea Hurley

come to recognize that in this American society, violence can strike anywhere at any time. This university, this community is part of American society."

In the hours following the incident, President Graham B. Spanier took several steps to reassure parents, students, faculty, staff and the community at large that this random act of violence was an anomaly. In fact, much of the correspondence being sent to the president and other administrators since the shooting commends the university for its quick action, candid responses to media queries and its handling of the incident. Spanier, who was the focus of a live call-in show on WPSX-TV the same day the shootings occurred, has been praised for his leadership in the wake of the tragedy.

For people in the counseling world, those factors go a long way in not only helping others overcome the shock of such an event, but in lifting their own spirits at a time when they may be feeling physically and emotionally drained.

"We need to keep our own emotions in check while dealing with others and one of the best things that could have occurred is our observation that the university community really rallied to the cause," Heitzmann said. "It was really gratifying to hear calls on WPSX and the president acknowledge our services. It was a boost to morale at a time when we needed it."

Some of the other emotions people may be experiencing, according to Heitzmann and Clarke, are shock, sorrow, anger and feelings of vulnerability.

"My own staff deals with these various issues as our life work, but I think the suddenness of this tragedy and the extraordinary circumstances surrounding it have momentarily thrown us," Heitzmann said. "We are taking time to process our own concerns and deal with this issue and others should too. Time will definitely help diminish this great tragedy, but people need to talk about this issue."

Clarke said trained counselors aren't the only ones who can help others deal with this crisis.

Counseling available

Counseling will continue to be available on an as-needed basis at the following locations:

The Employee Assistance Program for staff and faculty, available 24 hours a day by calling (814) 865-3085.

Center for Counseling and Psychological Services, 221 Ritner Bldg., (814) 863-0395

Eisenhower Chapel (814) 865-6548

Individual ministries also are providing counseling services as needed:

Alliance Christian Fellowship, 205 Chapel, (814) 865-1562

Catholic Center, 207 Chapel, (814) 865-4281

Christian Student Fellowship, 205 Chapel, (814) 865-1562

Christians in Action, 201 Chapel, (814) 865-1244

Episcopal Ministry, 210 Chapel, (814) 865-3762

Hillel Penn State, 115 Chapel, (814) 863-3816

International Christian Fellowship, 201 Chapel, (814) 865-1244

Lutheran University Parish, 112 Chapel, (814) 865-0033

New Life Student Fellowship (Baptist Campus Ministry), 207 Chapel, (814) 863-7874

United Campus Ministry (American Baptist, Church of the Brethren, Mennonite, Society of Friends, United Church of Christ, United Methodist, Presbyterian (USA)), 209 Chapel, (814) 865-7627

President Graham B. Spanier is concerned that parents will have access to as much information as they desire concerning the safety of their children. To this end, he is sending a letter of reassurance to the parents of every student enrolled at University Park. In addition, the Alumni Association has scheduled an informational session for parents during Parents Weekend.

"I would encourage faculty and staff to allow students to discuss this tragedy, to give them space to do this in various contexts, whether in terms of office hours or in the classroom."

In at least one class, students got that chance.

Sue Rankin, senior diversity planning analyst in the Office of the Vice Provost for Educational Equity and a lecturer in kinesiology, walked into her kinesiology 481 class on Sept. 18 and asked the students to observe a moment of silence. Afterward, she asked the more than 50 students present if anyone wanted to speak about how they were feeling.

"At first it was a little quiet," Rankin said. "Then one student remarked about how he was angry at and sorry for Jillian Robbins," the suspect in the shooting. "He said he was angry at (the suspect) for taking a life and he was feeling bad for her at the same time."

The discussion took the entire class period, and the range of reactions was broad.

"That's the whole point of initiating the discussion—to give them a forum where they could express themselves," she said.

A few of the students said they were feeling more fearful on campus and taking notice of things they wouldn't have before, such as someone walking too closely behind them or looking weird at a bus stop.

"Their feelings of safety have been violated, so trust is an issue," Rankin said.

Another student said it was reassuring to know that there were students who would help a stranger in trouble.

Many focused on the unanswerable question of why the tragedy happened.

"They realize it was a random act of violence, and there's nothing you can do about it. You can't stop going to class or walking along the path at the HUB lawn," Rankin said. "It's horrific, but you still have to move on."

■ Close to home

Dealing with
random violence

By JODY BARTKO

The Hershey Medical Center

Many people view a college campus as an asylum from real life where the violence, pressure and demands of society are absent.

The random act of violence on Sept. 17 that left one student dead and another injured on the HUB lawn at the University Park Campus has shaken that belief and left a community to pick up the pieces.

Random violence is particularly hard to deal with, said Paul A. Kettl, associate professor of psychiatry at The Hershey Medical Center. Kettl, who has done research on violence, said random violence has no boundaries and in psychiatry is considered a low-frequency behavior. There are usually no warning signs that a person exhibits before he or she performs an act of random violence, he said.

Death is difficult to accept in general and when a random act of violence takes a life, it is even harder to deal with because there is no answer to "why" it happened, Kettl said.

The associate professor also considers survivors to be victims. He said people like to think they or someone else could have done something to prevent or alter the situation. Kettl said that people would rather feel guilty than out of control. The "if only..." syndrome seems to make people feel better, but only masks the healing process.

Kettl said some people suffer post-traumatic stress disorder after a random act of violence. Post-traumatic stress disorder, most often associated with soldiers in combat or victims of war, is a condition which develops after an individual has experienced a psychologically traumatic event. Symptoms include difficulty falling asleep, irritability or outbursts of anger, difficulty concentrating, hypervigilance or an exaggerated startle response. These symptoms may persist long after the traumatic event has occurred.

Kettl recommends that anyone exhibiting any of these symptoms talk with others who were affected by the incident.

"Dealing with what happened as a community is more effective than dealing with it on your own," he said.

Kettl also recommended using services offered by counseling centers and professionals.

"Tragedies change lives. We can never assume that things will be the same. However, we can overcome things and move on with our lives," he said.

■ Scholarship established

In remarks during the Sept. 23 memorial service for Melanie Spalla, President Graham B. Spanier said he had received numerous suggestions of ways the University might remember Melanie, and announced the formation of a scholarship to honor her.

"I cannot explain why this happened, but I know we must honor Melanie by remembering her and by gathering strength in our lives from the joy for life she displayed in hers," Spanier said.

The scholarship will be designated for an undergraduate student at the University Park campus. Contributions may be sent to the Office of University Development, 116 Old Main, University Park, PA 16802.



Answering media question

Dave Stormer, vice president for University Safety, responds to a question from one of the dozens of reporters at a media conference Sept. 17.

Photo: Greg Grieco

Together
continued from page 1

Indeed, the greater State College area ranks among those communities with the very lowest crime rates in the nation. Every effort that is humanly possible is being taken to guarantee that Penn State remains a safe and secure place for learning. The safety of our students has been, and continues to be, a top priority.

Although there is probably nothing that anyone could have done to prevent this senseless act, I think we should all be proud of the way this university came together in response to the tragedy. University police were on the scene almost immediately, taking the suspect into custody. Their handling of the matter has been flawless. Members of our nursing staff rushed to the scene to help the victims. Less than 90 minutes after the shooting, three counseling centers were up and running to help students deal with the trauma of the event. Student Affairs staff and campus clergy mobilized to assist the families of the victims and fellow students. Extra phones were quickly brought to the HUB to make it easier for students to call home to assure their parents they were safe.

Information was quickly posted to our World Wide Web site, accessed by thousands of people within hours of the tragedy. University operators handled more than double their usual load of calls, reassuring worried parents.

Three press conferences were held through the day to keep the media and community informed. That night on WPSX-TV, a televised special edition of my monthly radio show, simulcast on several radio stations, allowed us to take calls and answer questions from people throughout the region.

Across the campus, faculty, staff and students worked together to help the victims and reassure the community with a level of professionalism and poise that was truly remarkable.

Despite this senseless and random act, Penn State remains a safe place for faculty and staff to work, and for students to learn and grow. We will do all that we can to ensure that this never changes. Our commitment is to maintain Penn State's reputation for academic excellence, while also ensuring a campus environment marked by humanity, civility and safety.

My thanks go to all within the Penn State family who worked so hard to deal with this tragedy. It is an important reminder to us all of the incredible caliber of people who make up this university.

Volunteers

continued from page 1

out the entire Penn State system. Because student organizations self-report their numbers, some did not submit information. The figures for this year include University Park activities and the volunteer efforts of only six of Penn State's remaining 22 campuses: Altoona, Beaver, Fayette, Mount Alto, New Kensington and Wilkes-Barre.

The information catalogued by Pennsylvania Campus Compact tells the organization how close it is to reaching its goal of 100 percent participation in volunteer activities by college students. So far, the compact has achieved an involvement rate of 35 percent, according to Fountain.

Since 1989, Pennsylvania higher education institutions have donated

"I think students are being exposed to volunteer services at a much younger age, so they are coming in with the idea that service is a natural part of the educational process, part of a valuable education."

Melissa Frank-Alston
program director,
volunteer programs and services

nearly 10 million hours of service to surrounding communities at an estimated value of \$42 million, based on an average of \$4.25 an hour for the services provided.

"Pennsylvania continues, as it has for many years, to set the pace for what needs to be happening," Fountain said.

Pennsylvania Campus Compact is one of the founding state compacts in the nation. There are currently 20 existing compacts involved in the National Campus Compact, with two more states expected to join in the coming year. The National Campus Compact was formed 10 years ago.

The compacts provide a way for anyone interested in the service movement to know what is happening here and across the nation," Fountain said. "It also lets presidents of institutions know where they fit in comparison to other schools. But our goal is not to make comparisons because every area's needs are different."

Anyone looking for volunteer opportunities can contact LIONS SHARE, a clearinghouse set up by the Office of Volunteer Programs and Services through the AT&T Center for Service Leadership, at (814) 863-4624. LIONS SHARE helps place students with volunteer opportunities at any one of the 172 agencies listed in the Centre register.

LECTURES

"Election '96 Debate" heads Altoona series

The 1996 Student Affairs Distinguished Speakers Series for the Altoona Campus will kick off at 7:30 p.m. Tuesday, Oct. 3, with an "Election '96 Debate" between **Edwin Meese III**, former U.S. attorney general, and U.S. Sen. **George McGovern**, in the Community Arts Center on campus.

From his days as a district attorney in California to his three-and-a-half year term as U.S. attorney general, Meese left his mark on the American public. As a public official in California, he advanced to chief assistant to then-Governor Ronald Reagan. From the onset of the Reagan Administration, it was Meese who was considered the president's top domestic affairs adviser. He is now a distinguished Fellow at the Heritage Foundation and the Hoover Institution and is the author of a nationally-syndicated column, as well as author of the best-selling book *With Reagan*.

For the last quarter-century, no person has ranked higher in liberal causes nor been so identified with Democratic party principles than Sen. McGovern. A two-term member of the House of Representatives and a U.S. senator for 18 years, McGovern was the 1972 Democratic presidential nominee, opposing Richard Nixon. In 1982, he founded Americans for Common Sense, providing an alternative political voice on behalf of minorities, the poor and other marginalized Americans.

Each event in the Distinguished Speakers Series is free to the public, however, tickets are needed and may be picked up at the Penn State Bookstore on campus. The bookstore is open Mondays from 8 a.m. to 7:30 p.m.; Tuesdays through Fridays from 8 a.m. to 5 p.m.; and Saturdays from 11 a.m. to 2 p.m.

Other events in the series are:
■ **Gross National Product**, Washington, D.C.'s resident satirical group, will present "Mock the Vote"; 8 p.m. Saturday, Oct. 26.

■ **U.S. Air Force Capt. Scott O'Grady**, who was shot down over Bosnia while helping enforce the NATO no-fly zone, will present "Return With Honor" at 7:30 p.m. Thursday, Nov. 21.

■ **Volanda King**, the eldest daughter of Dr. Martin Luther King Jr. and Coretta Scott King, will discuss "Is Martin Luther King's Dream Alive in 1997?" at 3:30 p.m. Sunday, Jan. 19.

■ **Greg Louganis**, Olympic gold medalist and HIV positive, will discuss his autobiography *Breaking the Surface* at 7:30 p.m. Tuesday, Feb. 25.

South Asian art lectures continue

The second lecture of the South Asian art lecture series will be held at the Palmer Museum of Art at 3 p.m. Sunday, Sept. 29. The lecture series is held in conjunction with the exhibition "Cooking for the Gods: The Art of Home Ritual in Bengal," which is on view at the museum through Dec. 8. At 2 p.m., Indian sweets and special spiced tea will be served free to the public in the museum lobby.

Vidya Dehejia, curator of South and Southeast Asian art at the Arthur M. Sackler Gallery in Washington, D.C., will present a lecture titled "When God Has a Bedroom: South Indian Temples and Festival Bronzes." Her talk will be illustrated with slides.



Edwin Meese III



George McGovern

Center's fall agenda focuses on women's issues and concerns

The Center for Women Students on the University Park Campus has scheduled the following events for the fall semester:

■ **Film/discussion on "One Hit Leads to Another,"** which explores why women stay in abusive relationships; noon to 1 p.m. Wednesday, Oct. 9, in 120 Boucke Building.

■ **"Women's Health Issues in the 90s,"** brown-bag lunch presentation at noon Wednesday, Oct. 23, in 120 Boucke.

■ **"Let's Talk—Sexual Assault at Penn State"** presented by Penn State Survive, peer sexual assault counselors, at 7 p.m. Tuesday, Oct. 29, in the HUB Assembly Room.

■ **"Should Feminists Respect the Ideal of Home?"** presented by **Iris Young**, professor of public and international affairs, University of Pittsburgh, at 7:30 p.m. Friday, Nov. 1, in 101 Kern.

■ **"Everyday Sexism and Racism at Penn State,"** brown-bag lunch program with presentation and discussion of results of an on-campus study of the racism and sexism experienced by Penn State students and the ways in which individuals cope with and respond to incidents of "everyday" prejudice; noon to 1 p.m. Wednesday, Nov. 6, in 120 Boucke.

■ **Olympia Dukakis**, actress and advocate for women's rights, will speak at 8 p.m. Tuesday, Nov. 19, in Schwab Auditorium.

The Center for Women Students facilitates women's advocacy and related efforts. For more information on the center or any of these events, call (814) 863-2027 or visit the center's Web site at <http://jovuu.cac.psu.edu/~psd2>

Second Cancer Symposium to feature research and discoveries

The second annual Cancer Symposium sponsored by the Penn State University Cancer Center will be held on Thursday, Oct. 17, in the hospital auditorium at The Hershey Medical Center.

The symposium, "Cancer Prevention, Cancer Risk: Basic Principles and Clinical Applications," will feature presentations by some of the nation's leading cancer researchers and clinicians. The speakers will address current drug trials; hereditary cancer syndromes; methods of detection, prevention and counseling for people at risk; and the benefits and limitations of genetic testing. The symposium is targeted to oncologists, general practitioners, internists, surgeons, nurses, residents, basic scientists and other health care professionals.

The symposium begins with registration at 8 a.m., with the program starting at 8:25 a.m. The program will conclude at approximately 5 p.m. with a reception following until 7 p.m. The fee of \$50 includes instruction, handout materials, refreshments, lunch and the reception. For information on registration, call Continuing Education at (717) 531-6483. Registration is required by Oct. 3.

"This symposium will shed light on the explosive discoveries in molecular biology and articulate the manner in which these advances will assist in the prevention of many cancers," Dr. **Rodrigue Mortel**, associate dean and direc-

tor of the Penn State University Cancer Center, said.

Some of the speakers and the titles of their lectures are:

■ **Dr. Curtis C. Harris**, Laboratory of Human Carcinogenesis, National Cancer Institute, National Institutes of Health, "p53 Modulation of DNA Repair and Apoptosis;"

■ **Dr. Samuel A. Wells Jr.**, Bixby professor and chairman of surgery, Washington University School of Medicine, "The Role of Surgery in Cancer Prevention;"

■ **Anthony E. Pegg**, Evan Pugh professor of cellular and molecular physiology and professor of pharmacology, College of Medicine at The Hershey Medical Center, "Omithine Decarboxylase as a Target for Cancer Prevention;"

■ **Dr. Carlo Croce**, director of the Kimmel Cancer Center, professor and chair of microbiology and immunology, Thomas Jefferson University, Jefferson Medical College, "Oncogenes: From Laboratory to Bedside;"

■ **Edward Bresnick**, vice chancellor for research, professor of pharmacology, University of Massachusetts Medical Center, "Genetic Testing to Determine Cancer Risk: Where Do We Start?;" and

■ **Dr. Stephen Lemon**, Department of Preventive Medicine, Creighton University, "Cancer Prevention in Hereditary Breast and Colorectal Cancer Syndromes."

Free symposium for faculty and staff

"Creating New Learning Environments," a free, one-day full symposium planned for the University Park Campus, is a forum where faculty and staff can share ideas and strategies for communication, collaboration and technologies to improve learning.

Scheduled for Saturday, Oct. 5 from 9 a.m. to 4 p.m. in the Thomas Building, the symposium will offer morning presentations by Penn State faculty, lunchtime roundtable discussions and afternoon workshops focus-

ing on problem-based learning, assessment and designing and creating Web pages.

Although the symposium is free to Penn State faculty and staff, anyone from other schools interested in attending may do so for a \$75 fee.

For more information, look under "special announcements" on the Web at URL <http://ets.cac.psu.edu/news/FEmdex.html>, or contact **Karen Peters** at kmp138@psu.edu or by phone at (814) 863-7763.

More lectures

Controversial photographer to discuss his work

Photographer Andres Serrano will present a lecture about his work at 7:30 p.m. Tuesday, Oct. 1, in Schwab Auditorium on the University Park Campus. The lecture is being held in conjunction with the exhibition "Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," which is currently on view at the Palmer Museum of Art. This exhibition features four of Serrano's photographs.

Brooklyn-native Andres Serrano's maturity as an artist emerged in the early 1980s with photographs that dealt with unresolved feelings about his Catholic upbringing.

In 1989, Serrano gained national prominence when his photograph, *Piss Christ* (1987), included in an exhibition that had been funded by the National Endowment for the Arts, came to the attention of Senators Alfonse D'Amato and Jesse Helms, who considered it blatant blasphemy. The photograph quickly became an emblem of decadence and amorality for those hoping to cut or eliminate federal funding of the arts.

Serrano's lecture is free to the public. The exhibition, "Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," will remain on view at the Palmer Museum through Dec. 15.

Progress made since 1995 women's conference is topic of Oct. 3 lecture in Harrisburg

"The UN Women's Conference One Year Later" will be the topic of a Thursday, Oct. 3 discussion from 11 a.m. to 1 p.m. at the Penn State Harrisburg Eastgate Center. The session will focus on the progress made since the UN Fourth World Conference on Women was held in September 1995, and will feature portions of a national teleconference highlighting what communities across the nation have done.

Irene Baird, director of the Women's Enrichment Center, and Patricia Johnson, associate professor of humanities and literature at Penn State Harrisburg, will serve as facilitators for the session.

This workshop is free to the public, but registration is necessary to ensure adequate seating. To register, call the Eastgate Center at (717) 772-3590. This program is co-sponsored by Penn State Harrisburg Women's Studies Program, the Women's Enrichment Center and the Eastgate Center.

SUNY professor to give talk on genes

Robert R. Sokal from the State University of New York at Stony Brook is the 1996 Paul T. Baker Lecturer in Human Biology and will speak on "Genes, Language and History" at 4 p.m. Monday, Oct. 7, in 112 Kern on the University Park Campus.

Sokal, who was born in Vienna, received his B.S. degree in biology from St. John's University in Shanghai and his Ph.D. degree in zoology from The University of Chicago. He started his career in the Department of Entomology at the University of Kansas, where he studied systematics and geographic variation, numerical taxonomy and the genetics and ecology of *Drosophila*, *Tribolium* and houseflies. In 1968 he moved to the Department of Ecology and Evolution at the State University of New York at Stony Brook where he is currently distinguished professor emeritus.

The Paul T. Baker Lectureship in Human Biology and Anthropology was established in 1987 by former students of Professor Paul T. Baker and by the Department of Anthropology. The lectureship honors Baker for his distinguished service to graduate education and research, and for his efforts to promote a multidisciplinary approach in the study of the biology and behavior of humankind.

Women's Health Care Conference set for Oct. 16

A Women's Health Care Conference sponsored by The Milton S. Hershey Medical Center Department of Nursing will be held on Wednesday, Oct. 16, at The Hershey Lodge and Convention Center.

The conference is designed to update nurses in all settings about health care topics affecting women today.

The fee .95 per person includes the cost of instruction, hand-out materials, refreshments and lunch. Registrations must be received by Oct. 2. For registration information or information on topics to be covered, call the Penn State Continuing Education office at (717) 531-6483.

Former president of Michigan to talk about higher education's future



James J. Duderstadt, president emeritus of the University of Michigan, will discuss "The Future of American Higher Education" as

the first lunchtime speaker in the new Penn State National Issues Forum, established by the Faculty Staff Club.

Duderstadt will deliver his address in the Alumni Ballroom of the Nittany Lion Inn on the University Park Campus on Oct. 8. The address will later air on WPSU radio.

Duderstadt will share his perspective on the future of higher education, in particular the future of flagship research universities, during a period of dwindling state and federal support. He served as president of the University of Michigan from 1988 until 1996. He is founder and director of the Millennium Institute, a research center exploring the implications of information technology for the future of higher education.

During his career Duderstadt received numerous national awards for his research, teaching and service activities. These include the National Medal of Technology for ex-



James J. Duderstadt

plary service to the nation; the E.O. Lawrence Award for excellence in nuclear research; the Arthur Holly Compton Prize for outstanding teaching; and selection as the National Engineer of the Year by the National Society of Engineering.

Duderstadt has served on numerous public and private boards and also served

recently as chairman of the board of directors of the Big Ten Athletic Conference.

The National Issues Forum will include a buffet lunch starting at 11:30 a.m., a speech approximately 30 minutes long, and then about 15 minutes of questions and answers from the audience. The format will be similar to the one used by the National Press Club in Washington, D.C., which can often be heard on WPSU radio.

Tickets for the event are \$10 and reservations can be made by mail or by stopping by the Faculty Staff Club office at 110 HUB. For more information, call (814) 865-7590.

Oct. 16 forum to examine public education

Noontime forums on three issues at the heart of Pennsylvania's public education are coming to the Penn State Downtown Center in Harrisburg.

Sponsored by the Pennsylvania State Data Center at Penn State Harrisburg, the noon lectures kick off Oct. 16 with a look at "Inequities in School Districts."

The presentation by Arnold Hillman, adviser for the Pennsylvania Department for Rural and Small Schools, will focus on state funding issues and how the Commonwealth can achieve an equitable system.

On Oct. 23, the Downtown Center will host a noon discussion on "Early Care and Education: Giving Every Pennsylvania Child a Head Start." As part of the presentation,

Jan Benso, executive director of Pennsylvania Partnerships for Children, will focus on a number of points including: how to give children a head start on education; and the effect of state and federal welfare reform laws on early childhood education.

The final installment in the series on Nov. 26 will focus on the problem of school violence. Henry Sontheimer, senior evaluation analyst with the State Commission on Crime and Delinquency, and Brian Bumpanger of the Center for Safe Schools will review current information and strategies.

All presentations at the Downtown Center are free to the public. Pre-registration to ensure adequate seating is encouraged. Call (717) 946-6464.

Legal implications for campus religion is focus of Oct. 3 Values in the Community talk

Gary Pavela, director of judicial programs at the University of Maryland, College Park and editor of the national quarterly *Synopsis: Law and Policy in Higher Education*, and its sister publication *Synopsis Weekly Report*, will lead a public discussion on "Legal Implications for Religion on Campus: Post-Rosenberger" at 7:30 p.m. Thursday Oct. 3, in 101 Kern Building on the University Park Campus.

This seminar is the second in a series of Values in the Community series sponsored by Student Affairs and the Center for Ethics and Religious Affairs and Centers for Community Education, and is open to the public.

The 1995 Supreme Court decision that campus religious organizations have the same right to be funded through normal student organization funding as any other student group came as a result of a suit filed against the University of Virginia. The case

involved the University's decision not to grant university funding for publication of a Christian magazine.

Pavela has an M. A. in intellectual history from Wesleyan University, a law degree from the University of Illinois and has been a Fellow at the University of Wisconsin Center for Behavioral Science and Law. A recognized expert on academic ethics, he is also past president of the National Center for Academic Integrity and has been a consultant on legal issues and student conduct policies at many leading universities.

Clay Clavert, assistant professor of communications at the Pennsylvania Center for the First Amendment in the College of Communications, will join in the discussion.

For more information, contact Ken Clarke at (814) 865-6484.

The ARTS

AT PENN STATE



Historic photography

Male Trio, circa 1900, an overpainted tintype from the Henisch Collection of the History of Photography is on display in the Rare Books Room, W342 Pattee Library on the University Park Campus, through Oct. 14.

Plays planned

The School of Theatre Arts Workshop in Diverse Cultures will present four more plays in studio performances this fall: "The Blacks" by Jean Genet, directed by Charles Dumas, assistant professor of theatre arts, on Thursday, Oct. 10, "Giving Up The Ghost" by Cherrie Moraga, directed by Josh Aubin on Thursday, Oct. 31; "Martin Luther King: A Modern Japanese Noh Play" by Kenneth Yasuda, directed by Richard Nichols, professor of theatre arts, on Thursday, Nov. 14; and a Jewish-American play selected and directed by Cary Libkin, associate professor of theatre arts, on Thursday, Dec. 5. All plays begin at 4:45 p.m. and will be in the Pavilion Theatre on the University Park Campus (except "Giving Up The Ghost," which will be presented in a venue to be announced later).

"The Blacks" by Genet was written to be performed by an all-black

company with some of the actors portraying white people wearing white masks.

Moraga will be in residence at Penn State in late October. During her stay, the workshop will showcase a studio production of her play about three women. Nichols just returned from a sabbatical in Japan and China, where he deepened his understanding of traditional and modern Asian theater. He will share some of his experience with the class and audience. Libkin's project will highlight some of the rich tradition of Jewish-American theater.

After each play there will be a short question-and-answer session. For more information, call (814) 863-9413. The plays are free to the public.

Ambassadors present cello/piano recital

School of Music faculty cellist Kim Cook and pianist Carl Blake will present a recital at 8 p.m. Thursday, Oct. 3, in the College of Arts and Architecture Music Building Recital Hall. They will collaborate to perform the "sonatas" by Cesar Franck and Samuel Barber. They also will perform "Soliloquy" by American composer George Rochberg; "Tango" by Argentinian composer Astor Piazzola; and arrangements of Negro spirituals.

The performance is free to the public.

Hi-Lo's to perform for Bach's Lunch

The Hi-Lo's from the Penn State Glee Club will perform for the Bach's Lunch concert at 12:10 p.m. Thursday, Oct. 3, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The free, 20-minute concert is

sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Hi-Lo's, a group of 14 voices, is directed by Bruce Trinkle, associate professor of music. The group will perform "Politics and Music" for the Bach's Lunch program. Their program will include selections from Gershwin's political musicals "Strike Up the Band" and "Of Thee I Sing," "Politics and Poker" from "Fiorello," and the premiere of a new set of Scottish folk songs arranged by Trinkle.

Audience members may bring their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Odyssey on WPSU

On the next episode of Odyssey Through Literature, Mark Fearnow of the Department of Theatre Arts speaks about the life and work of playwright Claire Boothe Luce.

After hearing an excerpt from Luce's play "The Women," host Leonard Rubinstein notes that many of Luce's critics described her as "a merciless denigrator of her own sex." Fearnow responds that Luce insisted the play was misinterpreted and denied that it was against women as a whole.

Fearnow also discusses how Luce lost her talent for cruel wit because of three major events that occurred in her later life. She became involved in politics, lost her daughter in a car accident and converted to Catholicism. Fearnow explains that even Luce believed that her creative talents were killed by these changes in her life.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WPSU 91.5 FM.

Historic photography collection on display

The Rare Books Room and the Historical Collections and Labor Archives of the University Libraries have on display a survey of the painted photograph, from its 19th century origins through World War I, with selections from the Heinz K. and Bridget A. Henisch Collection of the History of Photography.

As photography grew more popular following its invention in 1839, its admirers did not understand how a medium that rendered shapes and textures in exquisite detail could fail to render them in realistic color. Photographers, eager to please their public, began "painting" their photographs with substances ranging from watercolors and oil to chalk and crayon. Images were enlarged, enhanced and framed to simulate the traditional painted portrait.

The Henisch Collection, which is housed in and administered by the Historical Collections and Labor Archives of Pattee Library, includes a rich variety of original 19th and 20th century sources, in a multitude of techniques. In the exhibit are many



BRYCE JORDAN CENTER

Upcoming events

Upcoming events at The Bryce Jordan Center on the University Park Campus include:

■ Oct. 4: Royal Lipizzaner Stationers, 8 p.m.; tickets \$14.50 for adults; \$12.50 for children 12 & under and senior citizens. Limited Gold Circle seating is available for \$17.50 (all seats reserved).

■ Oct. 7: Dave Matthews Band with Boxing Gandhi, 7:30 p.m.; tickets \$22.50 (reserved seating).

■ Oct. 12: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

■ Oct. 13: NBA Preseason, Atlanta Hawks vs. L.A. Clippers, 7 p.m.; tickets \$19.50/\$15.50/\$9.50.

■ Oct. 19: Penn State Tailgate Party, four hours before kickoff; \$10 for children 12 and under.

■ Nov. 2: Penn State Tailgate Party, four hours before kickoff; \$10 for children 12 and under.

■ Nov. 9: WYNNONA with special guest Ty Herndon, time and tickets to be announced.

■ Nov. 23: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at The Bryce Jordan Center, or for more information on any event listed here, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu>.

portraits, including overpainted death portraits, most commonly those of children, as well as overpainted landscape and travel scenes that display the origins of later picture postcards.

The exhibit will run through Oct. 14 in the Rare Books Room, W342 Pattee Library, open Monday through Friday from 8 a.m. to 5 p.m.

International artwork at Worthington Scranton

A collection of international artwork, on loan from Boyd's Mills Press, is on display in the Penn State Worthington Scranton Campus Study Learning Center through Oct. 15. The original artwork was created for the books *Sleep Rhymes Around the World* and *Street Rhymes Around the World* assembled by award-winning author Jane Yolen.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, September 26

School of Music, 12:10-12:30 p.m., Eisenhower Chapel.
Bach's Lunch Concert: Wunderbrass trio.
Center for the Performing Arts, 8 p.m., Schwab. "Sanford Sylvan and David Breiman."

Friday, September 27

■ Gallery Talk, 2 p.m., Christoffers Lobby. Mary F. Linda on "The Gods Must Be Hungry."

Tuesday, October 1

"Separation and Purification Strategies for Biotechnology Products" workshop, 8:30 a.m., Frear Laboratory, Through Oct. 4.

School of Music, 8 p.m., Recital Hall. Richard Kennedy, tenor and Elizabeth Ethers Asmus, harp.

Thursday, October 3

School of Music, 12:10 p.m.-12:30 p.m., Eisenhower Chapel.
The Hi-Lo's from the Penn State Glee Club.
School of Music, 8 p.m., Recital Hall. Kim Cook, cello.

Friday, October 4

School of Music, 8 p.m., Recital Hall. Penn State Philharmonia.

■ Center for the Performing Arts, 8 p.m., Eisenhower. The Tibetan Song and Dance Ensemble."

Saturday, October 5

Center for the Performing Arts, 8 p.m., Eisenhower. Roy Hargrave Quintet.

Sunday, October 6

Center for the Performing Arts, 3 p.m., Eisenhower. Flying Karamazov Brothers.

SEMINARS

Thursday, September 26

Physics, 3:30 p.m., 101 Ormond. Jay Patel on "The Role of Tunable Optical Resonators in Science and Engineering."
Gravity Center, 11:30 a.m., 339 Davey. Abhay Ashtekar on "Probing Semi-Classical States in Quantum Gravity."
Department of Food Science, 4 p.m., 117 Borland. Ed Mills on "High temperature packaging to prevent lipid oxidation."
Ceramics, 11 a.m., Steidle. Gerbrand Ceder on "First-Principles Calculations and Computational Experiments in Oxides."

Friday, September 27

Philosophy, 4 p.m., 124 Sparks. Jay Lambert, Joseph Kockelmans, David Ciavatta, Derrick Calandrella and Kym MacLaren on "Synthesis and Backwards Reference in Husserl's Logical Investigations."
Geography, 3:30 p.m., 206 Walker. Deryck Holdsworth on "Downtown Offices in the Transition to Corporate Capitalism: Insights from Buffalo, N.Y."

Sunday, September 29

■ Palmer Museum of Art, 3 p.m., Lipcon Auditorium. Vidya Dehejia and Arthur M. Sackler on "When God Has a Bedroom: South Indian Temples and Festival Bronzes."

Monday, September 30

Comparative Literature, 12:15-1:20 p.m., 101 Kern. Adrian



Unusual design

"Santa Barbara Wedge" by Beverly Pepper is one of the featured pieces in the Sculpture Garden outside Pattee Library on the University Park Campus.

Photo: Greg Grieco

Wanner on "The Poetics of a Problematic Genre, or, What on Earth is a Prose Poem?"

Gravity Center, 2 p.m., 339 Davey Lab. Roger Penrose on "Positivity of Mass in General Relativity."

■ Religious Studies, 11:15 a.m.-12:15 p.m., 22 Dieck. Roger T. Ames on "Chinese Philosophy and the Art of Warfare."

Physics, 3:30 p.m., 339 Davey Lab. Gene Wayne on "Is the Nonlinear Schrödinger Equation a Good Model for Nonlinear Condensed Matter Physics?"

Tuesday, October 1

Geosciences, 4 p.m., Walker 112. Michael Ryan on "Doubtfully Hydrothermal Convection Systems."

Palmer Museum of Art, 7:30 p.m., Schwab. Andres Serrano on "Abstraction to Figuración: Selections of Contemporary Art from the Pincus Collection."

Wednesday, October 2

Division of Undergraduate Studies, noon, 305 HUB. Ron Naranski on "Student Aid: Should It Affect Academic Advising?"

Thursday, October 3

Ceramics, 11 a.m., 301 Steidle P. Phule on "Mesoscale Dispersions of Ceramic and Metallic Particulates for Active Damping Applications."

Physics, 3:30, 101 Ormond. Max Lagally on "Nanoscience: A New Universe (But is it Physics?)"

Gravity Center, 11:30 a.m., 265 Willard. Madhavan Varadarajan on "Quantizing Diatomic Black Holes."

Friday, October 4

Geography, 3:30 p.m., 206 Walker. Cecil Goodwin on "ITS (Intelligent Transportation Systems): Boon or Boondoggle?"

Philosophy, 4 p.m., 124 Sparks. Eihanan Yakira on "Spinoza and the Philosophy of the Subject: The Mind's Body."

Sunday, October 6

■ Palmer Museum of Art, 3 p.m., Lipcon Auditorium. Pika Ghosh on "Cooking for the Gods: Women and Household Rituals in Bengal."

EXHIBITS

Palmer Museum

"Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

■ "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"BFA Exhibition," through Oct. 19.

Kern Exhibition Arena

"Lewis, Untangling Strands," Robert Vander Voort. Through Oct. 15.

The pottery of Ian Stainton, through Oct. 13.
"Happy Feet," The Pennsylvania Dance Theatre. Through Oct. 13.

Ritenour Health Center

"Art on the Move: The paintings of Marjut Kaananen-Katz," through Oct. 16.

The HUB Formal Gallery

"Geography of the Unconscious," Nancy Moore. Through Oct. 19.

The HUB Browsing Gallery

■ The work of Shalom Noiman, through Oct. 20.

The HUB Art Gallery

The watercolors of Dorothy Grebos, through Oct. 13.
Shaker-style boxes by Steve Strouse, through Oct. 13.

The HUB Research and Scholarship Area

"Pennsylvania's Great Treasure: The Capitol Building," Ed Simmons. Through Sept. 29.

■ Reflects an international perspective

SEPTEMBER 26 - OCTOBER 6

Keystone 21 partnership earns \$1.5 million research grant

Keystone 21, a partnership between Cheyney University, the Rodale Institute and Penn State's College of Agricultural Sciences and Commonwealth Educational System, has received a \$1.5 million grant from the W.K. Kellogg Foundation to continue participating in the Food Systems Education Initiative, a national effort to design educational strategies that will prepare food system professionals for the 21st century.

The Keystone 21 project is divided into two phases. The first, an 18-

month "visioning" process, was completed in 1995. Hundreds of Pennsylvanians participated in a series of meetings during which they were asked to develop a vision of the food system in the year 2020 and discuss the kinds of changes higher education should make to help food system professionals realize this future.

The program now begins a five-year implementation phase. Over the next several months, researchers will work with focus groups to discuss a variety of issues. By mid-1997,

Keystone 21 will issue a request for proposals that aim to revolutionize food system education. Researchers will be looking for creative educational initiatives that emphasize innovative collaboration among the partners.

One of the goals of the project is to impact the future generation of food system professionals to produce enough quality food, making it accessible to all. It is also hoped that by educating the next generation, our natural resources can be kept intact.

The W.K. Kellogg Foundation was established in 1930 to "help people help themselves through the practical application of knowledge and resources to improve their quality of life and that of future generations." To achieve the greatest impact, the foundation targets its grants toward specific local points or areas. These include food systems and rural development; youth, education and higher education; and philanthropy and volunteerism.

"Hoops for Hope" to raise funds, awareness

Former and current members of the Lady Lion and Nittany Lion basketball teams will play the Pittsburgh Steelwheelers, a wheelchair basketball team from the HealthSouth Harnaville Rehab Center, Wednesday, Oct. 9, in a game to benefit the Centre County United Way.

"Hoops for Hope," sponsored by employees in Undergraduate Education at the University, is scheduled for 7 p.m. in Recreation Building on the University Park Campus.

Co-team leaders for Undergraduate Education's 1996 United Way Campaign are **Janet Bowman**, Academic Assistance Programs, and **Donna Meyer**, University Scholars Program Office.

"Our goal is not only to support our local United Way but also to raise an awareness of the athletic ability of the physically challenged," Meyer said. "Although athletic ability, an attitude of enthusiasm and competitiveness, and a winning spirit can be found in all team players, the determination and sense of achievement shared by the Pittsburgh Steelwheelers, and, perhaps, by all wheelchair athletes, is a spirit of its own."



The Pittsburgh Steelwheelers began as a six-member wheelchair basketball team in 1977 and grew into a diverse organization of more than 75 active men and women who participate in a variety of sports as well as community activities. Today, the Steelwheelers, like hundreds of wheelchair sports organizations across the country, strive to compete in the National Games and ultimately represent the United States on an international level.

Penn State athletes slated to play in "Hoops for Hope" include former Lady Lions **Kim Calhoun**,

Tina Nicholson, **Bethany Collins-Irwin** and **Patti Longenecker**, former Nittany Lions player **Nate Althouse**, and current Nittany Lions **Bryan Machamer** and **Dana Fritz**. **Don Ferrell**, academic athletic counselor, who has worked with wheelchair athletes in the past, will serve as coach. **Karol Brooks**, former international wheelchair athlete, will serve as assistant coach.

The fund-raising event will include appearances by the Nittany Lion mascot and the Penn State Pep Band. A number of door prizes, including autographed basketballs from the Penn State basketball teams, will be awarded.

Tickets are available for a donation of \$5 and can be obtained from any employee in Undergraduate Education or at any of the following Uni-Mart locations: 106 W. College Ave., Pleasant Gap; 200 E. College Ave., State College, and Carson's Corner, Port Matilda.

For more information, contact **Janet Bowman**, (814) 865-5379, or **Donna Meyer**, (814) 863-2635.

Faculty/Staff Alerts

Presidential open house

Here's your chance to talk informally to the president and provost and tour their offices in 201 Old Main.

For the second year in a row, The Office of the President, including the offices of President **Graham B. Spanier** and Executive Vice President and Provost **John Brighton** will be open to faculty, staff, students and friends from 4 to 5:30 p.m. on Friday, Sept. 27.

Light refreshments will be served. In honor of the day, the Old Main tower also will be open from 4 to 5:30 p.m.

International achievement award

Applications and nominations are currently being accepted for three W. LaMar Kopp International Achievement Awards to be bestowed by the Office of International Programs. The awards annually recognize three members of the University community who have contributed significantly to the advancement of Penn State's international mission. Each award carries with it a certificate of recognition and a \$1,000 stipend.

To request application/nomination forms, contact **Pam Gudeman** at (814) 865-0414 or by e-mail at pkg2@psu.edu. Applications and nominations, plus all supporting materials, must be received in 222 Boucke Building on the University Park Campus by Friday, Dec. 6.

HRDC courses

The following courses are being offered by the Human Resource Development Center. For a description of the courses, log in to the HRDC Web site at <http://www.ohr.psu.edu/hrdc/HOME.htm>. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form located on page 67 of the HRDC course catalog.

- **Improving Your Personal Effectiveness:** Meets for two sessions on Tuesdays, Oct. 8 and 15 from 8:30 a.m. - noon, in 319 Rider Building. Cost is \$55.

- **Making Sense of Information:** Meets Oct. 7 from 1 to 5 p.m., in 319 Rider Building. Cost is \$35.

- **Supervising Technical Service Employees:** Meets Oct. 9 from 1 to 4:30 p.m., in 319 Rider Building. Cost is \$35.

- **Becoming an Adult Learner in Higher Education:** Meets Oct. 9 from 8:30 by 11:45 a.m., in 319 Rider Building.

- **Designing Winning Research Proposals I:** Meets for two sessions on Wednesdays, Oct. 9 and 16 from 9 a.m. to noon, in 125 Reber Building. Cost is \$75.

Library seminars

The University Libraries is offering the following series of seminars during October to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact **Doris Herr** at (814) 863-0325. Seating is limited so register early. Information on the seminars also can be found by typing **HELP WORKSHOP** when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.

- **Penn State Libraries Catalog in LIAS** Oct. 3, 7 and 30: 10 a.m. to noon; Oct. 4, 12, 23 and Oct. 24: 3 to 5 p.m.; Oct. 1 and 11: 11 a.m. to 1 p.m., Oct. 15: 4 to 6 p.m. All sessions take place in Tower Room 402, Central Pattee Library

- **Beilstein CrossFire - Organic Chemistry** Oct. 1: 9 to 11 a.m., Reference Lecture Room, East Pattee Library

- **Career Information Resources** Oct. 24: 5 to 7 p.m., Tower Room 402, Central Pattee Library

- **Census Data on the Internet** Oct. 24: 8:30 to 10 a.m., Tower Room 402, Central Pattee Library

- **Chemical Abstracts** Oct. 14: 9 to 11 a.m., Reference Lecture Room, East Pattee Library

- **Citation Indexes** Oct. 8: 9 to 11 a.m., Reference Lecture Room, East Pattee Library

- **Earth Sciences databases** Oct. 8: 11 a.m. to 1 p.m., Tower Room 402, Central Pattee Library

- **Education databases** Oct. 2: 1 to 3 p.m., Tower Room 402, Central Pattee Library

- **Identifying Existing Instructional Software** Oct. 17: 10 a.m. to noon, Tower Room 402, Central Pattee Library

- **Literary and Historical Manuscripts** Oct. 10: 10 a.m. to noon, Tower Room 402, Central Pattee Library

- **Literature databases** Oct. 14: 10 a.m. to noon, Tower Room 402, Central Pattee Library

- **Molecular Biology** Oct. 31: 3 to 5 p.m., Tower Room 402, Central Pattee Library

- **NEXIS databases** (Note: LEXIS/NEXIS is available only for Penn State faculty, staff and students engaged in course-related research. Participants must present a valid Penn State ID at the workshop.) Oct. 10: 3 to 5 p.m., Tower Room 402, Central Pattee Library

Regional telecast

Penn State's first Big Ten football game of the season, at Wisconsin on Saturday, Sept. 28, has been selected by ABC to be televised regionally at 3:30 p.m.

The telecast will be the sixth announced TV appearance of the season for the Nittany Lions, who have appeared on TV each of their first four games.



Harvest time

Pumpkins and other sure signs of fall were on display at the recent Horticulture Show on the University Park Campus. Now that fall is officially here, it won't be too much longer before these and other pumpkins get their first coating of frost.

Photo: Andrea Hurlley

Integrated media center undergoes name change

The Faculty Integrated Media Center on the University Park Campus is now named the Faculty Multimedia Center (FMC) and has expanded its services.

The FMC is a place for Penn State faculty and staff to receive help integrating technology into the learning process. For example, if a faculty member has some videotape, 35mm slides, or pictures for use in a Web page or classroom presentation, the FMC can help transfer these materials into computer formats.

Faculty who want to integrate technology into the learning process can make an appointment to discuss their needs with FMC consultants. They also can come to the FMC and use the equipment to digitize their own materials, or arrange to drop off their materials for FMC staff to digitize, all free of charge.

The center, located in 214N Computer Building, has been continually growing since it officially opened in September 1993. Beginning this semester, the FMC will have expanded hours, more consultants and additional hardware and software.

The FMC is part of the Penn State New Media Centers (InterPaws) and is provided as a service of the Center for Academic Computing. Facilities are available by appointment Monday, Wednesday and Thursday from 9 a.m. to 5 p.m. Consultation questions and requests for appointments can be e-mailed to fmc@psu.edu or arranged by calling (814) 863-7051.

For more information, visit the center's Web site at <http://stingray.cac.psu.edu/fmc>.

Industrial Research Office to lead tenant development at Research Park Phase 2

Penn State's Industrial Research Office, under the leadership of Arthur A. Heim, has been designated to lead the tenant development effort in Phase 2 of the University's Research Park.

Heim has been head of IRO, which promotes industry-university partnerships, since 1990. Previously, he was director of new business and training for Penn State's Ben Franklin Technology Center.

K. Jack Yost, associate vice president for research and technology transfer, said, "The consolidation of responsibility for park development within IRO, a unit of Penn State's

Research and Technology Transfer Organization, will strengthen the marketing of Phase 2 of the park and help us to better serve industry."

Phase 1, now fully occupied, includes the Technology Center Building, which houses 11 companies in a small business incubator under the same roof with the University's Research and Technology Transfer Organization; The Penn State Scanticon; and the Materials Research Institute Building.

Phase 2 will begin with a multi-tenant building as soon as pre-leasing is completed.

News in Brief

Career Exploration Day

Organizers of the semi-annual Career Exploration Day are looking for departments and units at University Park to participate in this fall's program that introduces ninth-grade students to various occupations.

Two Career Exploration Days, scheduled for Nov. 7 and 21, will be held for students from the Bald Eagle Area, Bellefonte, Penns Valley and State College Area school districts. The program, a collaborative effort of the four school districts, the Centre County Vocational-Technical School and the Chamber of Business and Industry of Centre County, will begin at 9 a.m. as students are transported to the host work site by the schools. The students remain at the work site until 2 p.m.

For more information about the program or to sign up to host one or more students, contact Eric Loop, continuing education representative, 118 Keller Building, University Park, at (814) 863-0299; by fax at (814) 863-7042; or by e-mail at ewl1@cde.psu.edu.

United Way Golf Tournament

Applications are still being accepted for the first Penn State United Way Golf Tournament to be held Friday, Oct. 4, at the Blue Course on the University Park Campus.

The tournament will begin with lunch at noon. The 18-hole round of golf will begin at 1 p.m.

Entrance fee for the four-person scramble event is \$40 per person and includes greens fees, cart, tee prizes, on-course refreshments, catered lunch and team prizes.

Applications are available from your United Way representative, the Penn State Golf Course Pro Shop or by contacting Paul Peworchik at (814) 863-1511; e-mail: pjp@psu.edu, or Ken Miller, Penn State Golf at (814) 863-0754.

New programs at the McCoy Natatorium

Several new aquatic programs are beginning this fall at the McCoy Natatorium and White Building pools on the University Park Campus:

■ **Springboard diving:** Expert instruction and close supervision is offered to novices through advanced springboard divers. Basic tumbling and posture skills are taught in addition to actual dives is directed by former NCAA All-American diver Kimberly DeCloux Brown.

■ **Competitive swimming:** Competitive swimmers of all ages may partake in instruction and training offered by the McCoy Natatorium staff, many of whom are former Penn State swimmers. More than eight different ability groups have been formed with weekly practices. They meet anywhere from two to six times per week.

■ **Stroke analysis and refinement clinic for competitive swimmers:** This is a fine-tuning, in-water clinic designed to improve the competitive strokes, starts and turns of aspiring competitive swimmers. The clinic is taught by former University of Michigan swimmer Amy Bohnert.

■ **Aquacizer:** Faculty, staff and students are encouraged to participate in these weekly wet workouts that don't require you to swim or put your face or hair underwater.

Call the McCoy Natatorium for details, including fees and schedules, at (814) 865-1432 or (814) 865-1433, or fax (814) 865-3728.

Promotions

Staff

Sandra K. Dymond, staff assistant VI at The Hershey Medical Center.

William C. Edwards, director, regional programs, in Division of Development and Alumni Relations.

Patricia A. Ellenberger, administrative specialist in College of the Liberal Arts.

Le Eta J. Ersting, assistant to the dean for public relations in College of Health and Human Development.

James R. Fail, project coordinator II in Office of Physical Plant.

Angel P. Florentin, applications systems analyst at The Hershey Medical Center.

Larry C. Frazier, supervisor, renovations II, in Office of Physical Plant.

Leslie D. Frye, senior applications programmer/analyst in Research and Graduate School.

Cheryl A. Gallagher, assistant director, student aid, in Vice Provost for Enrollment Management and Administration, Office of Student Aid.

Andres Gaydos, senior technician/research, at The Hershey Medical Center.

Linda L. Gearhart, information systems support consultant in Computer and Information Systems, Administrative Systems.

Susan K. Gordon, senior research technologist in College of Agricultural Sciences.

Douglas W. Gray, administrative manager, Biostatistics & Epidemiology at The Hershey Medical Center.

Catherine S. Grigor, assistant director in Continuing and Distance Education.

Ronald A. Gurskey, project coordinator II in Office of Physical Plant.

Douglas F. Gwynn, manager, Housing Services I, in Housing and Food Services.

Elizabeth A. Haas, staff assistant IV in Office of Physical Plant.

Dennis Haines, CADD operator/project coordinator at The Hershey Medical Center.

Terrance W. Hansel, project coordinator II in Office of Physical Plant.

Jacqueline A. Harrison, pediatric oncology program aide at The Hershey Medical Center.

Pamela A. Hearn, staff assistant V in Office of Physical Plant.

Georganna M. Hillard, staff assistant VI in Office of Physical Plant.

Kathleen Hillegas, staff assistant VII in Student Affairs.

Harold R. Hockman, network coordinator in Office of Human Resources.

Linda Hosterman, staff assistant VI in Applied Research Laboratory.

Ruth A. Howe, staff assistant VI at The Hershey Medical Center.

John P. Ikenberry, development officer in Division of Development and Alumni Relations.

Virginia A. Ishler, program assistant in College of Agricultural Sciences.

Michele Jais, director, Enrollment Management, at the Penn State Hazleton Campus.

Lana L. Karl, billing, information specialist at The Hershey Medical Center.



Baked or fried?

Most fairs include some sort of refreshment, and the fourth annual Great Insect Fair held Sept. 21 on the University Park Campus was no exception. Fairgoers like Tony Minichiello, 12, of State College, were able to sample a variety of insects. Minichiello, a son of Sandy Minichiello, interview coordinator for the MBA program, ate meal worms cooked with mushrooms, garlic and basil on a belt with his parents. The fair, sponsored by the Department of Entomology, was held to showcase the diversity and beauty of insects.

Photo: Kristie Guldner

Donna J. Kemper, staff assistant V in Computer and Information Systems, Center for Academic Computing.

Russell Knapp, fire protection engineer at The Hershey Medical Center.

Hilary E. Kutchan, staff assistant V in Continuing and Distance Education.

Christopher L. Lacey, nursing manager at The Hershey Medical Center.

Janice F. Landis, staff assistant VII at The Hershey Medical Center.

Spencer Lewis, development officer in Division of Development and Alumni Relations.

Dayna R. Lowe, staff assistant V in The Eberly College of Science.

Technical Service

Brenda Aikey, janitorial worker in Office of Physical Plant.

Brenda L. Barnhart, lab technician B at The Hershey Medical Center.

Earl Bensinger, group leader, Central Processing, at The Hershey Medical Center.

Rhonda M. Brungart, janitorial worker in Office of Physical Plant.

Gloria K. Catich, athletic equipment and facilities worker in Intercollegiate Athletics.

Barry Coder, athletic equipment and facilities worker in Intercollegiate Athletics.

Patricia M. Harris, group leader/mail clerk driver, at Penn State Erie, The Behrend College.

Susan K. Hart, snack bar/janitorial worker A at the Penn State Altoona Campus.

Susan C. Kerstetter, athletic equipment and facilities worker in Intercollegiate Athletics.

Regina M. Lucas, janitorial worker in Office of Physical Plant.

Joseph E. Martini, biological technician B in College of Agricultural Sciences.

Shaaron Michaels, receiving clerk at The Hershey Medical Center.

Dennis Porter, maintenance worker, general B, in Intercollegiate Athletics.

Sherrie L. Putt, patient service aide at The Hershey Medical Center.

Dennis Schneider, stock delivery clerk in Business Services.

Flynn M. Smith, truck driver, janitorial, in Office of Physical Plant.

Danny D. Thompson, area facilities/maintenance mechanic in Office of Physical Plant.

Ray D. Trigger, lead roofer/carpenter in Office of Physical Plant.

Six Fulbright Scholars at University Park

Six international Fulbright scholars will be or are now at University Park to teach, consult and conduct research with colleagues under the sponsorship of the J. William Fulbright Foreign Scholarship Board and the United States Information Agency.

"We are very pleased when international scholars choose Penn State as the university where they carry out research in the United States," said Mary Gage, University Fulbright program adviser. "They come not only as scholars, but as representatives of their countries and cultures, and they enrich Penn State in many ways by their presence here."

The Visiting Scholars Program represents a significant part of the federal government's commitment to international educational exchange. On returning to their home institutions, Fulbright scholars will share their experiences at Penn State through seminars, meetings and publications.

The six scholars, who they are working with and their areas of study are:

■ **Olexander Hrysenko**, Institute of Cultural Policy, Ukrainian Center of Cultural Studies, Kiev, Ukraine. He can be reached in care of **Michael Naydan**, director, Center for Russian and East European Studies, 211 Sparks Building. He will be in residence January 1997 through August 1997, and his research project is a study of U.S. public cultural policy and private patronage of the arts.

■ **Martin Ibarra**, National Autonomous University of Nicaragua in Leon, Nicaragua; **J. M. Lambert**, computer science & engineering, 10 Pond Laboratory; August to July 1997. Research: programming language.

■ **Ismaïla T. Mohammed**, Department of Sociology, Bayero University Kano, Nigeria; **Gretchen Cornwell**, Population Research Institute, 613 Oswald Tower; August to July 1997. Research: male attitudes toward fertility control and family planning in Nigeria.

■ **Stephen Alfred Osei**, Department of Animal Science, University of Science and Technology, Kumasi, Ghana; **Daniel Hagen**, chair, Department of Dairy and Animal Science, 324 Henning Building; September through January 1997. Research: animal science.

■ **Bogdan Stefanescu**, University of Bucharest, Romania; **Michael Naydan**, department head, Slavic and East European languages, 211 Sparks Building, August through July 1997. Research: the rhetoric of post-totalitarian discourse.

■ **Ayşe Ulku**, Department of Chemical Engineering, Izmir Institute of Technology, Izmir, Turkey; **J. L. Duda**, head, Department of Chemical Engineering, 160 Fenske Laboratory, September through December. Research: water vapor absorption on zeolites.

Kitchen microwave inspires prototype space propulsion system

By BARBARA HALE
Public Information

Using parts from a 1,000-watt kitchen microwave oven, an engineer has built a prototype propulsion system that he thinks shows promise as a cheaper, safer thruster for positioning and maneuvering satellites in space.

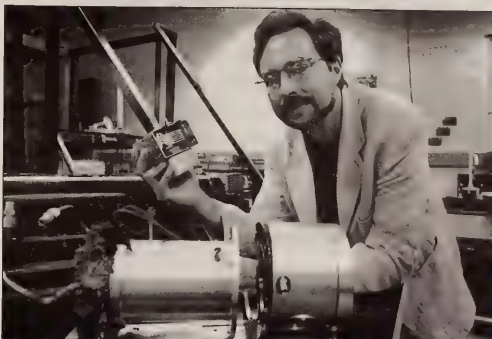
"Existing chemical positioning and maneuvering systems for communications satellites account, with their fuel, for a very large fraction of the total launch mass," Michael M. Micci, associate professor of aerospace engineering, said. "Though less commonly acknowledged, these existing systems are also responsible for the majority of satellite failures."

The microwave-powered thruster has the potential to reduce the amount of propellant needed by up to 50 percent. The fuel savings can be used to install more payload on the satellite or can be taken in launch cost savings.

"In addition, since many commercial communication satellites in orbit today were still operational when they ran out of maneuvering fuel, the increased capacity could extend satellite life by a number of years," he said.

Micci says the idea for a microwave thruster has been around for more than a decade. However, his is the only prototype currently undergoing active ground testing. His ambition is to see the system tested in space.

The thruster concept is



Michael M. Micci, associate professor of aerospace engineering, has developed a microwave-powered thruster that may result in fuel savings on satellites.

Photo: Greg Grieco

based on the fact that microwaves can be used to create and maintain a free-floating plasma or superheated, electrically-charged gas within a cavity, Micci said. If a cold "fuel" gas is passed through or around the plasma in the cavity, the cold gas will become heated and create thrust when allowed to flow out through a nozzle and heat energy is converted to kinetic energy, the energy of movement.

Since the plasma creates temperatures higher than those possible by chemical combustion, the plasma creates more thrust from the same amount of cold "fuel" gas than chemical combustion, Micci said.

In addition to being

more fuel-efficient than chemical systems, the microwave-powered thruster is inherently safer as well, he said. The thruster operates only when the magnetron, or microwave source, is generating microwaves. If the magnetron is turned off, so is the plasma that heats the fuel.

In Micci's prototype the electrical hardware and magnetron came from a conventional 1,000-watt kitchen microwave oven. The system has been operated using hydrogen, nitrogen and ammonia fuel gases. To date, the research has shown that the device can be successfully operated with a number of propellants and can easily cre-

ate and maintain plasmas from them.

The engineer said the thruster can potentially be operated with water as fuel. Water is heavier than ammonia but lighter than nitrogen. Micci has achieved his best performance with hydrogen, the lightest gas. However, hydrogen is difficult to store in space. Ammonia was closest in performance to hydrogen. Nitrogen's performance came in third.

Micci and his commercial partner, Research Support Instruments Inc., have applied for patents on the prototype device. He has also detailed the device and research results in a paper, "Current Status of the Microwave Arcjet Thruster."

Answering machines can change behavior

On the 25th anniversary of the telephone answering machine, a study proves what many suspected: that answering machines often take the "answering" out of telephone interactions.

Conducted by assistant professor of social psychology Peter Crabb, the study suggests that answering machines have changed the century-old rule that says "When a telephone rings, you answer it."

Crabb believes the findings go beyond proving the obvious, and in fact suggest that everyday technologies — from computers to automobiles — can affect behavior once governed by social norms.

"It appears that many of the consumer technologies we bring into our lives can change the rules we use to interact with one another," Crabb, who teaches at the Abington-Ogontz Campus, said. "In the case of answering machines, they have legitimized refusing to interact with others, which isn't always a bad thing when one considers the increased number of sales and other nuisance calls we face today."

"But we also find ourselves regularly screening and then deciding not to answer calls from friends, family and acquaintances," he said. "This is one example of the increasing frequency with which people are choosing to insulate themselves from other people, actually preferring to interact with machines rather than with one another." He cited voice mail, Caller ID and automated test machines as additional examples of this trend.

In the early days of telephones, not answering a ringing phone was unthinkable. Most adults can recall a time when they stirred from a sound sleep or jumped out of the shower, dripping wet and covered with soap, to answer the phone. That behavior has gradually decreased since the introduction of the answering machine in 1971. Today, most households have an answering machine, and screening calls is commonplace. "Today, just 'not feeling like it' qualifies as a legitimate reason not to answer the phone," Crabb said.

"Terrible twos" due more to parenting than to child's temperament

The "terrible twos" have a lot more to do with how parents manage their children's emerging quest for individuality and autonomy than with the inborn temperament of the child, say child development researchers.

Jay Belsky, distinguished professor of human development and family studies, Sharon Woodworth, postdoctoral fellow, and Keith Crnic, professor of psychology, draw that conclusion from their study of 69 central Pennsylvania families rearing first-born sons.

The study, which is continuing as the children approach school age, suggests that how parents manage the period of budding individuality dur-

ing years two and three makes a difference in how easy or difficult these children turn out to be later on.

Mothers, fathers and children in the study were observed interacting in their homes during two separate visits when the boys were 15, 21, 27 and 33 months old. The researchers looked for specific infant, parent and family characteristics or attributes to try to determine why some families had trouble during the second and third year of a child's life while others do not.

They found that children's own temperaments were not reliable predictors of troubled interactions. For example, babies who were negative

and cried more often at one year of age did not more frequently turn into "terrible twos."

More than 20 hours of daycare in the first year of life, however, were found to increase the probability that a vulnerable family would have trouble managing its toddler. Daycare was not found to be troubling in families that had few vulnerabilities in terms of infant, parent and family attributes.

Belsky notes, "I really think that the 'terrible twos' is a case of a few bad apples giving the barrel a bad name. Most two- and three-year-olds are not 'terrible' in the popular sense of the term."

MOC

Microcomputer
Order Center

Open house

The fourth annual Microcomputer Order Center open house will be held from 9 a.m. to 5:30 p.m. on Friday, Sept. 27, and 9 a.m. to 5 p.m. Saturday, Sept. 28, in 12 Willard Building on the University Park Campus. All Penn State faculty, staff, students and their families may stop by to talk with vendors and consultants, enjoy complimentary refreshments and register to win prizes.

IBM purchase policy:

Due to a change in IBM policy, the MOC can no longer order products directly from IBM. The MOC is in the process of acquiring a distributor for IBM products and will post the online price list and product information as soon as a company has been chosen.

The MOC does have a limited number of IBM products in stock. Please note the current purchasing policy for IBM products:

- Departmental and personal orders for in-stock IBM items can still be placed through the MOC. Call (814) 865-2100 for pricing and availability.

- Departmental orders for non-stock IBM products must be placed through the purchasing department. Please contact Jeff Karli (800) 677-6573 Ext. 47 at Inacom Information Systems for configuration and availability.

Site License Reminders:

The MOC has obtained site licensing for a number of software packages. Check the site license price list on the MOC Web page at <http://moc.cac.psu.edu>

If you are interested in a site license for a product that is not on the list, contact Sue Gavazzi at (814) 863-9523 or e-mail pmk@psu.edu.



A fresh new look

As part of the year-round maintenance schedule, painters Jake Peachey (on the ladder) and George Flood of Renovation Services with the Office of Physical Plant apply a new coat of paint to a lamp post outside of McElwain Residence Hall on the University Park Campus.

Photo: Andrea Hurley

Smeal College programs among top 10

Penn State's Smeal College of Business Administration was nationally ranked among the top 10 public schools in *U.S. News and World Report's* latest survey of undergraduate business programs.

An analysis of the *U.S. News* results, in an issue dated Sept. 16, showed Smeal in the ninth spot among the public business schools tied with fellow Big Ten institutions Purdue University and the University of Minnesota. All three received a score of 3.4 (of 4.0) based on a reputational survey of deans of schools accredited by the American Assembly of Collegiate Schools of Business (AACSB).

Penn State also was the top-ranked public school in the Northeastern U.S., and the only public school among four Northeastern public and private institutions in the *U.S. News* top 10. Among all public and private schools nationwide in the survey, The Smeal College came in tied for 13th place with Purdue, Minnesota and the University of Southern California. Topping the list of peer public business schools was the University of Michigan, followed by the University of California-Berkeley; a five-way tie among Indiana University, the University of Illinois, the University of North Carolina, the University of Texas-Austin and the University of Virginia; and Wisconsin.

Nine of the 11 Big Ten business schools were in the nation's top 20, according to the *U.S. News* survey. In its listing of all public and private schools, the magazine reported that Michigan was tied with the University of Pennsylvania for No. 1; followed by Berkeley and the Massachusetts Institute of Technology tied for third.

For the Record

In the Sept. 5 issue of *Intercom*, the title of Peter Risser's sculpture — which was donated to The Hershey Medical Center — was incorrect. The proper title of his 18-foot tall work is "The Toy, The Tool, The Child, The Man."

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Volume 26, Number 7

Hershey garners \$7.7 million contract to continue work on artificial heart

Penn State's electromechanical artificial heart is closer to beating inside a human chest — thanks to a \$7.7 million federal contract awarded this month.

This phase-two award is the largest federal award ever received by The Milton S. Hershey Medical Center, bringing the total contract to \$13.9 million over seven years of research and development.

Penn State's artificial heart is

expected to save thousands of lives when it becomes available. Last year 770 patients across the country died while waiting for a heart transplant. Patients requiring a heart replacement—as many as 50,000 per year—could be implanted with the artificial heart, according to principal investigator **Gerson Rosenberg**.

The air-driven Penn State Heart is one of only two artificial hearts approved by the FDA for use in

humans as a temporary bridge to a heart transplant.

"The Penn State device is the culmination of a number of years of cooperative research performed by physicians, engineers and veterinarians—both at University Park and here at Hershey Medical Center," Dr. William S. Pierce, professor of cardiovascular surgery and director of surgical research at Hershey, said.

"This contract allows a very expe-

See "Heart" on page 3

University gains \$17 million from endowed funds

Penn State's pooled endowment fund yielded \$17 million in support to the University's endowed academic programs during the fiscal year ending June 30, 1996, and \$63 million over the past five years.

"At a time when many other sources of revenue are declining or stagnant, endowments are becoming an increasingly important source of support for student and faculty programs," said Raymond D. Nargi, associate treasurer.

Over the last five years, the real rate of return has averaged 8.2 percent, compared with a rate of spending for academic program support of about 5 percent.

"The key to maintaining the economic viability of the endowment fund is to achieve an investment return that, after adjustment for inflation, equals or exceeds our rate of spending for academic program support," he said.

Over the last five years, the real rate of return has averaged 8.2 percent, compared with a rate of spending for program support of about 5 percent. As a result of this positive margin and new endowed gifts, the total market value of the University's pooled endowment fund grew by more than \$188 million over the past five years, rising from \$193.9 million in 1991 to \$382.1 million as of June 30, 1996.

Penn State's endowment fund is a pooled investment of gifts.



One potato, two potato, three potato, four ...

Arranging potatoes for sale, Tom Merritt, professor emeritus of animal science, took part in a recent Farmer's Market in downtown State College. The outdoor market, held every Friday throughout the growing season, will come to a close in early November. This photo was taken by photojournalism student Ellen Maxwell as part of an assignment from a photography class taught by Jock Lauterer, assistant professor of journalism. The assignment directed students to take pictures depicting weather scenes.

Inside



Fall lineup

The fall arts season kicks off with some perennial favorites like "The Sound of Music." For more information on upcoming shows, see page 6.

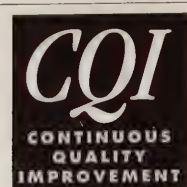


Going global

Businesses that want to stay competitive in the international market need to take a cue from their counterparts in the East. For the full story, turn to "Research" on page 11.

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Teams successful

The Graduate Admissions Records Management Team celebrated the 50 percent reduction in filing space achieved by scanning and indexing all of the records in the Graduate School. The new system increased customer satisfaction by reducing the number of errors, decreasing the search time and allowing multiple users to access records simultaneously. The team is sponsored by **Kodney Erickson**, the leader is **Charles Galtgoc** and the facilitator is **Barbara Sherlock**. Team members include **Audrey Davidson**, **Diana Feltenberger**, **Leslie Frye**, **Brenda Hockenberry**, **Don Hogg**, **Shawn Kuhlman**, **Michelle Matis**, **Pat McClure**, **Cindy Nicosis**, **Annabelle Persia**, **Daisy Romig**, **Heather Shuttica**, **Althea Spotts**, **Jodi Stover** and **Laurie Wheeler**.

Waste control

The Chemical Management Team recently developed a process to reduce waste disposal costs that will save the University \$25,000 per year. Improvements in purchasing and storage are expected to yield an annual savings of \$250,000. Product availability will be improved from the previous 15- to 90-day wait to same-day delivery. The team sponsor is **Bill McKinnon**. Team leaders are **Jim Lettiere** and **Jim Dunlop**, and the facilitator is **Steve Kreiser**; team members are **Joe Bodkin**, **Maurine Claver**, **Mike Kearney**, **Jim Frazier**, **Nancy Killeen**, **Barbara Lyke** and **Dave Sarge**.

Protocol established

The Medical Excuse Team in University Health Services established a protocol for students' medical excuses. A pre-printed form was introduced that did not violate confidentiality. This UHS team was sponsored by **Margaret Spear**, led by **Larry Dansky**, and facilitated by **Doris Gnanowsky**. Team members were **Cindy Condrone**, **Donna Decker**, **Hattie Faison**, **Jane Galas**, **Greg Gilbert**, **John Hoffman** and **Michael Johnson**.

FYI

The 1997 Malcolm Baldrige National Quality Award examiner applications are due Nov. 1. Applications may be obtained from the Center for Quality and Planning, (814) 867-8721.

October is national Lesbian, Gay and Bisexual History Month

For the first time, Penn State is joining in the national celebration of Lesbian, Gay and Bisexual History Month this month, which was started by a St. Louis high school history teacher who was appalled at the failure of his 800-page textbook to mention any gay, lesbian or bisexual history whatsoever.

Inspired by existing celebrations such as African American History Month in February and Women's History Month in March, organizers sought to create a time when special attention could be focused on the contributions of lesbian, gay and bisexual people to world history.

October was chosen as the month in which to celebrate this history in order to build on existing traditions like National Coming Out Day on Oct. 11, and to honor the October anniversary of the 1979 and 1987 marches on Washington, D.C., organized by gay, lesbian and bisexual activists.

The university's Commission on Lesbian, Gay and Bisexual Equity and other groups have planned the following events on the University Park Campus, which are open to the public.

■ **Thursday, Oct. 10:** Career panel discussion with the Alumni Association's Lambda Alumni Interest Group and staff from the Career Development and Placement Service at 7:30 p.m. in 413 Boucke Bldg.

■ **Friday, Oct. 11:** National Coming Out Day, sponsored by the Lesbian, Gay and Bisexual Student Alliance (LGBSA) and the Coalition of Lesbian, Gay and Bisexual Graduate Students, will be celebrated with a rally on the steps of Schwab Auditorium at noon.

■ **Saturday, Oct. 12:** Lambda Alumni will be having a Rainbow Tailgate party at Beaver Stadium.

■ **Saturday, Oct. 12:** Homecoming Dance sponsored by LGBSA and Lambda Alumni at 8 p.m. at the Ahterton Hotel in State College.

■ **Monday, Oct. 14:** Opening of the Lesbian, Gay and Bisexual History Month exhibit, "Lesbian and Gay Issues at Penn State, 1971-1996: 25 Years of Progress," in the lobby of Pattee Library.

■ **Tuesday, Oct. 15:** Reception for the Pattee exhibit from 4:30 to 6:30 p.m. President **Graham B. Spanier** will speak at 5 p.m. The exhibit continues through Nov. 29.

■ **Thursday, Oct. 17:** The Rev. Irene

LGB equity commission appoints 12 new members

Twelve new members have been appointed to the Commission on Lesbian, Gay and Bisexual Equity. New members are: **John Albin**, assistant director, Residence Life; **Barbara Bullock**, assistant professor of French; **Susan Cromwell**, education, training and development specialist, College of Agricultural Sciences; **Mark Fearnow**, enhancement programs; **Jeffrey Hayes**, associate professor of education; **Dennis Kalup**, resident assistant and undergraduate student in political science; **Dale Masel**, instructor and graduate student in industrial engineering; **Diane Resides**, counselor in the Center for Adult Learner Services; **Carolyn Sachs**, associate professor of rural sociology and women's studies; **Samuel Toba**, graduate student in chemistry; and **Roger Zellner**, associate professor of art. This year's chairman is **Morris Weinstein**, research programmer in the Center for Academic Computing and the chair-elect is **Samuel McCorkle**, associate professor of art.

The commission comprises four standing committees: Commonwealth Educational System and

other locations, chaired by **Joseph Marchesani**, assistant professor at the McKeesport Campus; curricular integration, chaired by **Nancy Evans**, associate professor of education, education, chaired by **Robert Seeds**, head of the math library; and student concerns, chaired by **Jeffrey Hayes**, assistant professor in counseling psychology. The commission has an ad-hoc committee on domestic partner benefits, chaired by **Marilyn Eastridge**, assistant professor of exercise and sport science. In addition, the commission works on other initiatives including the Lesbian, Gay, Bisexual Support Network, chaired by **Kelly Carter**, coordinator in residence life, and the Lecture Series on Lesbian, Gay and Bisexual Lives, co-chaired by **Mark Fearnow**, assistant professor of theatre arts, and **Roger Zellner**, associate professor of art.

For more information or to volunteer for a committee, contact **Susan Ravert**, senior diversity planning analyst, 313 Grange Building, at (814) 863-8218 or srx2@psu.edu or visit the commission's Web page at <http://www.psu.edu/staff/diversity/lgbt.html>.

Monroe will present a talk on "Standin' in the Need of Prayer: Homophobia in the Black Church" at 4 p.m. in the Lipson Auditorium of the Palmer Museum of Art, with a reception immediately following.

■ **Friday, Oct. 19:** A religion and homosexuality panel discussion with the Rev. Irene Monroe and invited local clergy, sponsored by the Coalition of Lesbian, Gay and Bisexual Graduate Students at 5:45 p.m. in the Paul Robeson Cultural Center.

■ **Monday, Oct. 28:** **Cherrie Moraga**, lesbian poet, essayist and playwright, will be a featured speaker for both the Lesbian, Gay and Bisexual History Month and Hispanic History Month at 7 p.m. in Kern.

For more information, contact **Sue Rankin**, 313 Grange Building, University Park, Pa. 16802, at (814) 863-8415 or by e-mail at srx2@psu.edu.

Exhibit planned

An exhibit titled "Lesbian and Gay Issues at Penn State, 1971-1996: 25 Years of Progress" is one of a number of events on the University Park Campus that celebrates national Coming Out Day and Bisexual History Month in October.

Sponsored by the University's Commission on Lesbian, Gay and Bisexual Equity, the exhibit opens Monday, Oct. 14, and runs through Friday, Nov. 29, in the lobby of Pattee Library.

The exhibit tells the story of how events during the last 25 years influenced the University; changing it from a homophobic climate into one that today is more accepting of gay, lesbian and bisexual faculty, staff and students.

An opening reception will be held Tuesday, Oct. 15 from 4:30 to 6:30 p.m. in the Penn State Room, 107 Central Pattee, adjacent to the exhibit. President **Graham B. Spanier**, will be the featured speaker. The reception is open to the public. For more information contact **Robert Seeds**, (814) 865-3714.

Panel to discuss being "out" in workplace

A career panel to discuss gay and lesbian workplace issues with students will be held at 7:30 p.m. Thursday, Oct. 10, in 413 Boucke Building on the University Park Campus.

Alumni from around the country and in several professions will talk about the climate for lesbian, gay, bisexual and transgender employees, along with information on employee resource groups and sexual orientation inclusion in non-discrimination policies. **Jane Moyer**, co-chair of Penn State's Lambda Alumni Interest Group, will lead this discussion.

Two corporate executives from Fortune 500 companies, a financial planner, a marketing executive and a corporate attorney will talk about being "out" at work and at Penn State, and answer questions from the audience.

Ellen Houser, a counselor in Career Development and Placement Services, will serve as a facilitator for the discussion and will outline career services available through the University. The event is hosted by Lambda Alumni Interest Group in cooperation with the Penn State Career Development and Placement Office.

■ Distinguished Professors Two in ag sciences honored with title

Terry Etherton, an international authority on growth hormones and agricultural biotechnology, has been named distinguished professor of animal nutrition. **Harvey Manbeck**, professor and interim head of the agricultural and biological engineering department, has been named distinguished professor of agricultural and biological engineering.

The title of distinguished professor was established by the Office of the President to recognize a select group of professors with exceptional accomplishments in teaching, research and service.

Etherton has developed an internationally recognized research program in animal growth. He teaches graduate courses in nutrition and animal growth as well as an undergraduate course in animal growth and development.

Etherton was a National Institutes of Health postdoctoral Fellow in the Department of Medicine at Stanford University from 1978 to 1979, when he joined Penn State's dairy and animal science department. In 1986-87, he took a sabbatical leave to work at Children's Hospital at the University of California, San Francisco.

Etherton has been the recipient of several national research awards. In 1991, he was awarded the University Faculty Scholar Medal in Life and Health Sciences. In 1993, he received the Alex and Jessie C. Black Award for Excellence in Research for the College of Agricultural Sciences.

He is a member of numerous national professional societies, including the American Association for the Advancement of Science and the Endocrine Society.

Etherton also chaired the National Research Council subcommittee on the effect of metabolism modifiers on nutrient requirements of food-producing animals.

Manbeck's undergraduate and graduate teaching has been recognized with the Penn State Engineering Society's Premier Teaching Award in 1990 and Penn State's George Atherton Excellence in Teaching Award in 1991. Manbeck serves as faculty adviser to about 25 undergraduate students and seven graduate students per year, and also has served as adviser to several student organizations.

A leader in wood engineering research and design, his work has contributed significantly to the advancement of design of post-frame buildings and hardwood timber bridges and to the development of structural and wood production systems. He leads the structural system effort in Penn State's Housing Research Center and served as the center's interim director in 1995.

A recognized authority on poultry housing, Manbeck currently is editing a national extension publication on poultry housing and equipment. He also helped establish Penn State's Particulate Materials Center and contributes to a cooperative Penn State research effort to define the mechanical behavior of powders, granules and other particulates.

He is a member of several professional organizations including the American Society of Agricultural Engineers (ASAE), the American Society of Civil Engineers and Gamma Sigma Delta, the national honorary agriculture fraternity, and has received national and international research awards. He was named a Fellow of ASAE in 1992.

For the past three years he has served as chairman of the Faculty Senate's Committee on Research.



Terry Etherton



Harvey Manbeck

"Hoops for Hope"



Don Ferrell (center), academic athletic counselor, loses a jump ball for former Lady Lions Patti Longenecker, left, and Tina Nicholson as they practice for a wheelchair basketball game against the Pittsburgh Steelwheelers at 7 p.m. Wednesday, Oct. 9, in Recreation Building on the University Park Campus. Tickets for the "Hoops for Hope," sponsored by Undergraduate Education to benefit the Centre County United Way, are available for a donation of \$5 from any employee in Undergraduate Education. For more information, contact Janet Bowman at (814) 865-5379, or Donna Meyer at (814) 863-2635.

Photo: Greg Grieco

Heart

continued from page 1

rienced team that has been in place since 1970 to do all the preclinical studies to bring the electromechanical artificial heart to the point where we can apply to the Food and Drug Administration in the year 2000 for permission to test the device in humans," Pierce said.

According to Pierce, the device is expected to be widely available by the year 2005.

Clearly, the need for hearts is far greater than the availability of donor organs. Last year 44 patients died at eastern Pennsylvania hospitals while waiting for a donor heart, according to Kevin Sparkman of the Delaware Valley Transplant Program. As of July of this year, 3,648 patients were on the national waiting list for hearts, 175 of them in the eastern half of Pennsylvania.

Of the 50,000 requiring a heart transplant, only some 3,000 to 4,000 qualify as candidates for transplant, according to Rosenberg.

The Penn State group began developing artificial hearts and related devices in 1970 and is considered a world leader in the field. Calves are the current test subjects for the device, which will be a completely implantable total electric artificial heart. The device is designed for five-year reliability and is expected to allow a human patient to lead a relatively normal life. Five calves have now lived more than 100 days with the device; one lived for 160 days.

According to Pierce, the device was developed at the medical center and turned over to an industrial partner, the 3M Health Care company, for manufacture and assembly.

"This contract allows a very experienced team that has been in place since 1970 to do all the preclinical studies to bring the electromechanical artificial heart to the point where we can apply to the Food and Drug Administration in the year 2000 for permission to test the device in humans."

William S. Pierce, professor of cardiothoracic surgery and director of surgical research

Through a similar contract, the Texas Heart Institute, which has been collaborating with the industrial partner Abiomed for several years, will receive funds to continue development of the electrohydraulic artificial heart. Both teams will test hermetically sealed systems in *in-vitro* test chambers over a two-year period to demonstrate long term reliability of the device, according to the funding agent, the National Heart, Lung and Blood Institute (NHLBI), an agency of the National Institutes of Health.

This second phase of support by the NHLBI is based on progress made in the first phase, 1993-96, during which the University received \$6.2 million.



LECTURES

Conference for Canadian Studies today through Oct. 5

The 12th biennial meeting of the Mid-Atlantic and New England Conference for Canadian Studies is being held at the Nittany Lion Inn today through Oct. 5. This year's meeting commemorates the 15th anniversary of the founding of MANECCS at Penn State.

The conference offers a number of paper sessions and panels on a wide range of issues including Canadian/American politics, cultural issues, literature studies, Canadian health care, Quebec nationalism and others. A key speaker will be David Kilgour, deputy speaker of the Canadian House of Commons. Registration for the conference begins today from 5 to 6 p.m. in the Rotunda Lobby of the Nittany Lion Inn.

Slide lecture at Palmer Museum Oct. 8

Ron Meyers, retired professor of ceramic art at the University of Georgia in Athens, will visit the University Park Campus Oct. 7-8 and present a free slide lecture on Tuesday, Oct. 8, at 1:30 p.m. in the Palmer Lipton Auditorium of the Palmer Museum.

Meyers, who originally aspired to be a cartoonist, earned his MFA at Rochester Institute of Technology. During his stay, on campus, which is hosted by the College of Arts and Architecture School of Visual Arts, Meyers also will give video demonstrations to art students in the ceramics area.

Brown-bag lunch examines early Russia

The Center for Russian and East European Studies presents a brown-bag luncheon seminar featuring Adrian Wanner, assistant professor in the Department of Slavic and East European Languages, at noon Wednesday, Oct. 9, in 124 Sparks Building.

Wanner's topic is "Terrorism and Decadence: Charles Baudelaire's Early Reception in Russia. The seminar is open to the public.

Other upcoming seminars include George Enteen on "Impressions of Russia: An Update," Oct. 23; Irene Hurd on "Doing Business in Russia: A Woman's Perspective," Nov. 7; and Bogdan Stefanescu on "The Irony Behind Romania's Identity: Metaphors of Insecurity in a Besieged Culture," Nov. 20.

For more information, visit the Center for Russian and East European Studies on the Web at <http://rudiophi.la.psu.edu/slavic/ueelcome.htm>.

Two seminars feature horticulture professor

L. Curtis Hannah, a professor in the Department of Horticultural Sciences and the program in plant molecular and cellular biology at the University of Florida, will be the speaker at two seminars on the University Park Campus.

The first seminar, to be held at 12:20-1:10 p.m. on Wednesday, Oct. 9, in room 111 Tyson Building, is titled "A Single Gene Mutation that Increases Seed Weight." In this seminar, Hannah will describe the development and characterization of a modified regulatory enzyme in the pathway of starch biosynthesis. Presence of this modified enzyme results in dramatic increases in seed weight.

Hannah's second seminar at 7:30 p.m. that same day will be in 101 Agricultural Sciences and Industry Building and is more suited for the general public. The second seminar is titled "Your Garden-Variety Mutations in Your Garden-Variety Organism, or Marvelous Maize Mutants."

Hannah received his B.S. in biochemistry and his M.S. in genetics from Purdue University, and his Ph.D. in genetics from the University of Wisconsin. He joined the University of Florida faculty in 1974 and was promoted to professor in 1983. Hannah is internationally known for his pioneering molecular genetic research on enzymes of the starch biosynthetic pathway.

Gender equity topic of daylong conference

"Gender Equity: Inclusive Perspectives," a Nov. 9 conference at The Penn State Scenic, aims to help participants become more aware of gender-biased behavior and communication traps, teach them how to nurture girl-adult learning partnerships and show them how to become positive role models for girls and boys. Sessions will focus on the needs, interests and women face in the classroom, in athletics, with self-esteem and with cross-cultural issues. The gender-equity model overview sessions will provide the tools and techniques needed to address these problems.

Sabrina Chapman, director of the Penn State Center for Women Studies, will give the keynote address, "Empowering Ourselves and Others."

Registration for this event is \$35 before Oct. 18 and \$50 after that date. The fee covers instruction, course notes, program materials, refreshment breaks and lunch. Registration begins at 8 a.m. The conference will be held from 9 a.m. to 4:30 p.m. To register, call (800) 778-8632 or visit the Web site at <http://www.cde.psu.edu/C&G/GenderEquity/>. For more information about the program, call Chris Schultz, conference planner, at (814) 863-5130.

Black Male Student Summit set for Oct. 5

Penn State will hold the second annual Black Male Student Summit, "Empowerment Through Activism," on Saturday, Oct. 5, in the HUB Fishbowl on the University Park Campus.

"This is a student-run student-initiated summit to encourage black men on campus of all ages to talk about issues of being black in higher education today," Leon Caldwell, who initiated the summit last year and continues to coordinate it, said. He is a graduate assistant in the Center for Counseling and Psychological Services in the Multicultural Resource Center on campus.

Caldwell expects about 75 men to participate, including a number from other University campuses who have expressed an interest.

Registration begins at 10 a.m. in the HUB — \$5 for undergraduates, \$10 for graduate students and \$25 for faculty, staff and members of the community. The program begins at 10:30

a.m. with a welcome address, "Da Stakes Are High," by Caldwell.

The day includes small discussion groups, a soul-food lunch with a keynote speaker and three discussion groups on activism. One group will focus on self and spiritual activism, another on community and social activism and the third on political and economic activism.

At 6 p.m., there will be an open general forum. Both men and women are invited to attend.

The summit is sponsored by Omega Psi Phi Fraternity in collaboration with the 96 Summit Planning Committee, Multicultural Resource Center, Department of African American Studies, Office of Educational Equity, Kappa Alpha Psi, Alpha Phi Alpha and Phi Beta Sigma.

For more information, please call Caldwell or Marcus Whitehurst at (814) 865-1773.

Distance Education forum features first speaker Oct. 7

The first discussion in a forum series on "Transactional Issues in Distance Education," is set for Oct. 7 on the University Park Campus. The series will give faculty an opportunity to discuss research issues related to distance education.

From 1 to 3 p.m. in Studio D of the Mitchell Building, guest speakers will present and discuss with participants research on issues related to learning and learners, instruction, course design and policy and administration. The forums are based on research articles that have appeared in the American Center for the Study of Distance Education publications. Registrars for the discussion forums will receive

a copy of each article before the session so they can be prepared for in-depth discussion of the topics.

The Oct. 7 forum will feature D. Randy Garrison, dean of the faculty of extension, and Terry Anderson, director of academic technology for learning, at the University of Alberta, Canada.

The forum is free but you must register to receive the discussion article before the event. A registration form can be completed at <http://www.cde.psu.edu/DE/FacDev/signup.html>. For more information, contact Nancy Hallberg at (814) 865-5403, extension 705, or through e-mail at ndw1@psu.edu.

Workshop offers information on homebrewing beer

Homebrew enthusiasts and beer lovers investigating the hobby may want to attend the "Homebrewing Workshop" at The Penn State Scenic on Nov. 3.

If you're inexperienced, don't spend a dime on new equipment or ingredients until you learn from the experts exactly what you need and how to avoid common mistakes and throwaway batches. Experienced brewers can learn advanced brewing techniques and swing recipes.

The "Homebrewing Workshop" will feature a vendor exhibition, a panel of experts to answer your brewing questions and sessions on:

- Getting started — equipment and ingredients
- Brewing and bottling safety
- How to mash

- Creating your own recipes
- Making mead
- How to judge brews
- Entering brewing contests

For more information about program content, please contact Dan Goepfert, senior program planner, by phone: (814) 865-7679; or e-mail: dags@cde.psu.edu. For information about registration or access, please contact Chris Dufour, conference planner, by phone: (814) 863-5110, or e-mail: conferinfo@cde.psu.edu. More information also is available on the Web at <http://www.cde.psu.edu/C&G/Homebrewing/>.

The deadline to register for the conference is Oct. 11.

To register with your credit card, call (800) 778-8632.

More Lectures

Two-day conference showcases CQI ideas in action

"Utilizing Continuous Quality Improvement in Education and Training," a two-day conference designed for faculty members, graduate students, university administrators and industry leaders who want to discuss the benefits of CQI and how it can be applied in education and training, will be offered on Oct. 22-23.

A continuing and distance education service of the College of Education, the workshops will feature **Philip B. Crosby**, internationally recognized for his quality management ideas, and nationally renowned educator **Robert A. Cornesky** at The Penn State Scanton on the University Park Campus.

Cornesky was the first to introduce Total Quality Management (TQM) ideas into college and university administrations and classrooms. Since 1964, Cornesky has served in institutions of higher education. He was the dean of the School of Science, Management and Technologies at Edinboro University of Pennsylvania and was the dean of the School of Allied Health at Texas Tech University Health Sciences Center. In 1991, he founded Cornesky & Associates Inc., a consulting and publishing firm. Cornesky has written eight best-selling books.

Crosby brings a wealth of knowledge gained in a lengthy career that has earned him international recognition for his quality management ideas. In 1979, he founded Philip Crosby Associates, which has become the world's largest quality management education company. His clients include General Motors, Chrysler, Xerox and hundreds of other corporations in the U.S., Europe and the Far East. An active public speaker, Crosby has written 13 best-selling books, including *Quality Is Still Free* and *Reflections on Quality*.

In addition to the two-day conference, a public lecture titled "Quality-Past, Present and Future," will be presented at 7 p.m. Tuesday, Oct. 22 at The Scanton at a cost of \$15 per person. Philip Crosby will examine quality as it relates to the past, present and future, as well as those initiatives individuals and organizations can take to improve quality.

For more information, visit the World Wide Web site at: <http://www.cde.psu.edu/C&I/CQIClassroom/> or e-mail: ConferenceInfo@cde.psu.edu.

Get out of the stone age!

In an effort to explore new directions in engineering education, the College of Engineering is sponsoring the "Innovations in Engineering Education Conference" on Oct. 28-29 at The Penn State Scanton at University Park.

An OPEN SPACE event, which enables the participants to pursue their passions given the time, talent and resources and encourages interaction and cooperation among participants, is being held as part of the college's centennial celebration, in cooperation with the Leonhard Center, Schreyer Institute and Continuing and Distance Education.

"Everyone will come away with new ideas and

discover new resources for the improvement of engineering education," according to Dan Goepf, the person responsible for convening OPEN SPACE. The event is not just for engineers, but will serve as a forum for networking with like-minded colleagues across disciplines.

Jack Matson, director of the Leonhard Center said, "If you're looking for an opportunity to think radical and propose the impossible, this will be the place to be this October."

For more information about the conference, call (800) 778-8632 or visit the Web site at <http://www.cde.psu.edu/C&I/Innovate/>.

Sessions examine health care law

"A Question of Skill: The Impact of Inadequate Training and Supervision on the Health and Well-being of Patients Across the Country" and "Trends in Health Care Law: Implications for Educators and Providers" are two sessions scheduled for the Strategies for the Successful Education of Health Care Providers conference, Nov. 6 and 7 at The Penn State Scanton on the University Park Campus. The conference, a continuing and distance education service of the School of Nursing, College of Health and Human Development and the Center for Vocational Education, College of Education, will look at these and other current issues of concern to all health care professionals.

For information call (800) 778-8632 or visit the World Wide Web site at <http://www.cde.psu.edu/C&I/StratistgForSuccess/>.

Event features performance art

The Performance Art, Culture, Pedagogy Symposium, set for Nov. 13-16 at The Penn State Scanton, will feature more than 40 of the nation's finest performance artists, critics historians, educators and arts presenters.

According to Charles Grolan, associate professor of art education, this is the first symposium of its kind to examine the historical, theoretical and experiential significance of performance art in order to distinguish its pedagogy as an emerging form of arts education.

Evening performances are open to the public and tickets are on sale now. For ticket information call (814) 863-0255 or (800) 778-7849.

For a registration form or more information, call (800) 778-8632 or visit their Web site at <http://www.cde.psu.edu/C&I/PAC.html>.

Session addresses family problems

Penn State Fayette's Department of Human Development and Family Studies will present a two-day conference designed to address and develop effective, collaborative strategies for solving the family problems facing the local area. Topics to be covered include elder caregiving and caregiver stress, day care for children, help for children in trouble, family violence, critical incident stress management and career pathways.

"The Changing Family" will be held on Thursday, Nov. 21, and Friday, Nov. 22. For more information, call (412) 430-4216.

News in Brief

HRDC programs

The following programs are being offered by the Human Resource Development Center:

Oct. 4:

- Healthy Thinking: 9:45-10:45 a.m., 221 Chamber Building

- Managing Personal Change in a Changing Environment: 8:30 a.m.-9:30 a.m., 520 Rider Building

- A Fresh Approach to Stress Management: noon to 1 p.m., 101 Carnegie Building

- Oct. 10:

- Be Well: noon to 1 p.m. in 110 Henderson Building (The Living Center). Cost: none

To register for the above programs, contact Jan Hawbaker at (814) 865-3085 or jqh30@psu.edu.

Professional Women at meet

Professional Women at Penn State will hold its first open agenda public meeting this year on Wednesday, Oct. 16. There will be brief presentations on job sharing and other alternatives by Anne Stokes, staff assistant, College of Health and Human Development; and vacation donation policy by Donna Nicely, coordinator of research and administrative ser-

vices, College of Education. The brown-bag lunch meeting will begin at 12:05 p.m. in room 110 Henderson Human Development (Living Center). To receive a copy of the minutes of this public meeting, please contact Jo Anne Mengle, 302 Walker Building, or e-mail jxm5@psu.edu.

Professional Women at Penn State is a grassroots group coordinated by University women in which participants can develop and maintain a communications network and serve as a resource for other Penn State. Attendance by both males and females in all job and student classifications at the University is welcome. For more information, log-in to the Web site at <http://radolph.la.psu.edu/~pellenhp/pwps/welcome.html>.

Volunteers needed

The Pennsylvania Transportation Institute at University Park is recruiting volunteers to participate in two research projects.

One of the projects is a lateral acceleration study designed to analyze how comfortable individuals feel while driving around curves in the roadway. Subjects between the ages of 35 and 45 are needed

for daytime testing. Participants will earn \$20 for one hour of their time. For more information on the lateral acceleration study, contact Bryan Hanover by phone at (814) 863-1044 or via e-mail at bsh118@psu.edu.

The other project is a commercial sign study designed to determine how well drivers can see various types of commercial signs. Volunteers between the ages of 30 and 45 and over age 65 are needed for daytime and nighttime testing. Participants will earn \$15 for one hour of their time. For more information on the commercial sign study, contact Beverly Kuhn by phone at (814) 863-8679 or via e-mail at batt116@psu.edu. Strictest confidentiality will be maintained in both studies.

National Issues Forum

Tickets for the Faculty/Staff Club National Issues Forum on Tuesday, Oct. 8, are going quickly. If you plan to attend the luncheon at the Nittany Lion Inn and hear James J. Ouderstadt, president emeritus of the University of Michigan, stop by the Faculty Staff Club office in 110 HUB today. Tickets are \$10 each. For more information, call the club at (814) 865-7590.

The ARTS

AT PENN STATE

Odyssey on WPSU

On the next episode of *Odyssey Through Literature*, **Elizabeth Maxwell**, independent scholar and widow of international publisher Robert Maxwell, speaks about the world denied by the denial of the Holocaust.

Odyssey Through Literature is produced as a continuing education service by the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM.

Tibetan ensemble at University Park

The National Song and Dance Ensemble of Tibet will perform at 8 p.m. Friday, Oct. 4, in Eisenhower Auditorium on the University Park Campus. The event is sponsored by the College of Arts and Architecture's Center for the Performing Arts.

Established by famous Tibetan musician and conductor E Zhu Duo Ji, the ensemble performs an enchanting mix of Tibetan music, dance and theatre. The company, on its first national tour, will perform such traditional folk dances as the Drummer's Dance and the Yak Horn Fiddle Dance.

An aesthetically spectacular event, the show features elaborate and colorful masks, costumes and instruments, all fashioned by skilled Tibetan artisans. Tickets are \$25.50, \$21.50 and \$17.50 for non-students, and \$21.50, \$17.50 and \$14.50 for students.

For tickets or more information, contact the Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Philharmonic Orchestra season opens Oct. 4

The Penn State University Philharmonic Orchestra, under the direction of Maestro Pu-Qi Jiang, associate professor of music, will present the first concert of its season at 8 p.m. Friday, Oct. 4, in the School of Music Recital Hall on the University Park Campus.

Jiang, who joined the faculty in 1993, recently returned from a tour of China. He was invited by the Beijing

and Shanghai conservatories as a guest lecturer and conductor. The orchestra, which this year consists of more than 70 graduate and undergraduate student performers, has performed in various cities throughout Pennsylvania, as well as Vienna, Stuttgart, Munich and Prague.

Tickets are \$2 and are available at the door.

Roy Hargrove Quintet to perform

The Roy Hargrove Quintet will perform at 8 p.m. Saturday, Oct. 5, in Eisenhower Auditorium on the University Park Campus. The concert is sponsored by the College of Arts and Architecture's Center for the Performing Arts.

Discovered by Wynton Marsalis during a seminar at a Texas high school, the 26-year-old Hargrove has earned tremendous critical and popular acclaim for his brand of bebop and swing. He was recently named "trumpeter of the year" by *Down Beat's* 60th annual reader's poll.

Hargrove will offer an Artistic Viewpoints discussion one hour before the performance in the Eisenhower Conference Room. Tickets are \$18.50 for non-students and \$14.50 for students. For tickets or more information, contact the Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Piano recital on Oct. 9

Mariylene Dosse will present a free piano recital at 8 p.m. Wednesday, Oct. 9, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

The first half will be dedicated to French music and the second half will be a selection of short dances and two Klavierstücke D 946 by Schubert and the "Dances of Marosszek" by Kodaly.

Dosse, a professor of music and a Fellow of the Institute for the Arts and Humanistic Studies, has published more than 20 recordings for Vex and Pantheon labels. She has performed in Europe, Africa, South America, Mexico and the United States.



That's entertainment

The Flying Karamazov Brothers take to the Eisenhower Auditorium stage on the University Park Campus at 3 p.m. Sunday, Oct. 6. For ticket information, call the Arts Ticket Center between 8:30 a.m. and 4:30 p.m. Monday through Friday at (814) 863-0255.

Essence of Joy at next Bach's Lunch

Essence of Joy will perform for the free Bach's Lunch concert at 12:10 p.m. Thursday, Oct. 10, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

Essence of Joy consists of 36 singers and is directed by **Anthony Leach**, assistant professor of music. The group, formed by Leach in 1991, performs a sacred and secular repertoire which emphasizes traditional and contemporary gospel music from the African-American culture.

The group will present its fall concert on the University Park Campus on Nov. 24.

Audience members are invited to bring their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

"The Sound of Music" on stage Oct. 10-11

"The Sound of Music" will be performed at 8 p.m. Thursday and Friday, Oct. 10 and 11, in Eisenhower Auditorium on the University Park Campus. The musical is sponsored by the College of Arts and Architecture's Center for the Performing Arts.

"The Sound of Music," the Rodgers and Hammerstein classic that became one of the most popular movies of all time, remains a family classic with such favorites as "Climb Ev'ry Mountain," "My Favorite Things," "Edelweiss" and "Do Re Mi."

The winner of seven Tony awards, the musical tells the touching story of Maria, a free-spirited young woman sent by her Mother Superior into the home of Capt. von Trapp, a widower, and his seven vivacious children. Tickets are \$32.50, \$27.50 and \$23.50 for non-students; and \$27.50, \$23.50 and \$20.50 for students. For tickets or more information, contact the Arts Ticket Center.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, October 4

School of Music, 8 p.m., Recital Hall. Penn State Philharmonic.

■ Center for the Performing Arts, 8 p.m., Eisenhower. "The Tibetan Song and Dance Ensemble."

Saturday, October 5

Center for the Performing Arts, 8 p.m., Eisenhower. Roy Hargrove Quintet.

Sunday, October 6

Center for the Performing Arts, 3 p.m., Eisenhower. Flying Karamazov Brothers.

Tuesday, October 8

School of Music, 8 p.m., Recital Hall. Centre Dimensions University Jazz Ensemble; Dan Yoder, director. For tickets call (814) 865-0431.

Wednesday, October 9

School of Music, 8 p.m., Recital Hall. Marylene Dosse, piano. For tickets, call (814) 865-0431.

Thursday, October 10

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch Concert, "Essence of Joy."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "The Sound of Music." For tickets, call (814) 863-0255.

Friday, October 11

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Jennifer Sireb presents Gallery Talk, Highlights of the Palmer Museum. For information, call (814) 865-7672.

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "The Sound of Music." For tickets, call (814) 863-0255.

Saturday, October 12

Palmer Museum of Art, 11 a.m., Christoffers Lobby. Gallery Talk, Portraiture in American Art. For information, call (814) 865-7672.

School of Music, 7:30 p.m., Schwab Auditorium. Penn State Glee Club Homecoming Concert, Bruce Trinkle, conductor. For tickets call (814) 863-0255.

Sunday, October 13

■ Palmer Museum of Art, 2 p.m., Christoffers Lobby. Catherine Ciferri presents a gallery talk "Ancient to Renaissance Art." For information call (814) 865-7672.

School of Music, 3 and 8 p.m., Recital Hall. Steven Smith, Piano Entente: a solo festival.

SEMINARS

Friday, October 4

Quality and Manufacturing Management Program, 2:30-4 p.m., 101 Kern. Bob Cardy on "Are You Interested in a Career in Manufacturing Management?"

■ Economics, 3:30 p.m., 420 Kern. Ann Harrison on "Sharing the Cost: The Impact of Trade Reform on Capital and Labor in Morocco."

Geography, 3:30 p.m., 206 Walker. Cecil Goodwin on "ITS (Intelligent Transportation Systems): Boon or Boondoggle?"

Philosophy, 4 p.m., 124 Sparks. Ehanan Yakira on "Spinoza and the Philosophy of the Subject: The Mind's Body."

Sunday, October 6

■ Palmer Museum of Art, 3 p.m., Lipson Auditorium. Pika Ghosh on "Cooking for the Gods: Women and Household Rituals in Bengal."

Monday, October 7

Economics, 10:30 a.m., 420 Kern. Ron Harstad on "The Industrial Organization of Auction Markets."

Comparative Literature, 12:15-1:20 p.m., 101 Kern. Ehanan Yakira on "Anticipating Modernity: The Backgrounds of Modern Critical Theory."

Gravity Center, 3 p.m., 339 Davey Lab. Hermann Nicolai on a subject to be announced.

Distance Education, 1-3 p.m., Studio D. Mitchell Building. Transactional Issues in Distance Education.

Physics, 3:30 p.m., 339 Davey Lab. Beth Cunningham on "Synchrotron X-ray Studies of Lipids and Membranes."



Nice hit

"Hustle" was the name of the game for Andrew Schell, a senior electrical engineering major, on one of the tennis courts on the University Park Campus. The Tennis Center is open daily from 8 a.m. to 8 p.m. To reserve a court, call (814) 865-1381. This photograph was taken for Jock Lauterer's photojournalism class under the category of weather photo.

Photo: Heather Collins

Tuesday, October 8

Geosciences, 4 p.m., 112 Walker. Larry Frakes on "Aspects of Cretaceous Climate."

Graduate Program in Nutrition, 4 p.m., 110 Wartik Lab. Gerald Combs on "Can Supplemental Selenium Reduce Cancer Risk?"

Wednesday, October 9

Center for Women Studies, 12-1 p.m., Resource Room, 120 Boucke. Patricia Johnstone on "One Hit Leads to Another."

■ Center for Linguistics, 12:15-1:15 p.m., 205 Burrows. Mary Ann Lyman-Hager on "Models for Computer-Assisted Listening and Reading in a Foreign Language."

Biotechnology Institute, 12:20-1:10 p.m., 111 Tyson Building. L. Curtis Hannah on "A Single Gene Mutation That Increases Seed Weight."

Engineering Science and Mechanics, 3:35 p.m., 129 Waring. Akhlesh Lakhtakia on "Green Engineering."

Biotechnology Institute, 7:30 p.m., 101 Ag. Sci. & Ind. Building. L. Curtis Hannah on "Your Garden-Variety Mutations in Your Garden-Variety Organism, or Marvelous Maize Mutants."

Thursday, October 10

Ceramics Series, 11 a.m., 301 Steidle, Jim McCauley on "Material Research in the Army Research Laboratory."

Gravity Center, 11:30 a.m., 339 Davey Lab. Guillermo Mena Marugan on "Canonical Quantization of the Gowdy Model."

Physics, 3:30 p.m., 101 Osmond Lab. Brian Schwartz on "Is There Life After the Ph.D.?"

Food Science, 4 p.m., 117 Borland Lab. Arvind Rangaswamy on "New Developments in New Product Development."

Econometrics Workshop, 4 p.m., 420 Kern. Jean-Francois Richard presenting "Econometric Methods for Game-Theoretic Problems."

Friday, October 11

■ Geography, 3:30 p.m., 206 Walker. Andrew Carleton on "Aspects of the Satellite Climatology of Mesoscale Cyclones over the Southern Ocean."

■ Gerontology Center, Special Day. Bob Johnson on "Research on the Oldest Old Twins: The OCTO-Twin Study in Sweden."

CONFERENCES

Saturday, October 5

Black Male Student Summit, 10:30 a.m., HUB Fishbowl. "Empowerment Through Activism."

Monday, October 7

Gerontology Center, 12-1 p.m., 101 H&H East. Gerontology Center Conference, through Oct. 9.

Tuesday, October 8

"Fermentation Methods and Scale-up Strategies," 8:30 a.m. Frear Lab, through Oct. 11. For information, call 1-800-PSU-TODAY.

EXHIBITS

Palmer Museum

"Selections of Contemporary Art from the Picus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5, 1997.

"Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"BFA Exhibition," through Oct. 19.

Kern Exhibition Arena. "Lewis, Untangling Strings," Robert Vander Voort, through Oct. 15.

The pottery of Ian Stainton, through Oct. 13.

"Happy Feet," The Pennsylvania Dance Theatre, through Oct. 13.

Ritner Health Center

"Art on the Move: The paintings of Marjut Kauphanen-Katz," through Oct. 16.

The HUB Formal Gallery

"Geography of the Unconscious," Nancy Moore, through Oct. 19.

The HUB Browsing Gallery

■ The work of Shalom Noiman, through Oct. 20.

The HUB Art Gallery

The watercolors of Dorothy Grebos, through Oct. 13. Shaker-style boxes by Steve Sirouse, through Oct. 13.

■ Reflects an international perspective

Appointments

New chief of plastic surgery joins The Hershey Medical Center

Dr. William P. Graham III has been appointed chief of the Division of Plastic and Reconstructive Surgery in the Department of Surgery at The Hershey Medical Center. With the appointment, Graham will reassume the position he held from 1971-85.

Graham has been in private practice with Aesthetic & Reconstructive Surgery of Central Pennsylvania, PC, since 1985, and he will continue to be associated with that practice.

Graham received his B.S. degree from Princeton University, Princeton, N.J., and his M.D. degree from the University of Pennsylvania School of Medicine, Philadelphia. He received his plastic surgical training at the University of Pennsylvania and completed his general surgery residency at the U.S. Veterans Hospital, Denver, Colo., and the University of California Hospital in San Francisco. He also served a rotating internship at the University of Colorado.

Before joining the medical center in 1971, Graham had been an assistant professor of plastic surgery at the University of Pennsylvania.

Graham has held many distinguished national posts in plastic surgery. He is past chairman of the American Board of Plastic Surgery, past president of the American Society of Aesthetic Plastic Surgeons and past president of the Northeastern Society of Plastic Surgeons, an organization which he also helped to found. Most recently, he was recognized as "Clinician of the Year" by America's oldest plastic surgical organization, The American Association of Plastic Surgeons.

He is board certified in general surgery as well as plastic surgery, and holds certificates of added qualification in hand surgery from both of these boards. He has authored or co-authored more than 200 scientific papers and is the co-editor of a text on hand surgery — *The Hand: Surgical and Nonsurgical Treatment*.

Arts and Architecture welcomes director of communications

David W. Johnson has been appointed the new director of communications/public relations for the College of Arts and Architecture. Johnson, former



David W. Johnson

While at Phillips Exeter Academy, New Hampshire and the Northfield Mount Hermon School in Massachusetts, Johnson supervised design, editorial and public information services, working closely with the admissions and development offices and publicizing cultural events. At Exeter, he edited an award-winning quarterly magazine, *The Exeter Bulletin*. Prior to the prep school world, he was editor/publicity coordinator and assistant director of communications at the Harvard University Development Office and a daily journalist. While at Harvard, he produced the university's 350th anniversary video, "The Way It Was."

As a free-lance writer, Johnson has contributed to *Yankee*, the *Boston Globe*, *Houston Chronicle*, *San Diego Union-Tribune* and the *Springfield* (Mass.) *Republican*, among others. He is a frequent writer on folk music. He's been a guest critic for the Boston Globe Jazz Festival and has advised the Massachusetts College of Art, the New York Experimental Glass Workshop and others on public relations and fund raising. He also wrote a chapter in the 1994 book *When Crisis Strikes on Campus*, published by the Council for the Advancement and Support of Education (CASE). An active member of CASE, Johnson is listed in *Who's Who in Public Relations*. He holds a bachelor of arts in English literature from Harvard College and a master of science in public relations from Boston University.

Development Communications adds writer/editor to staff

Nicola "Nick" McCarthy has joined the staff of Development Communications and Special Projects as a writer/editor.

McCarthy is a former copy editor and staff writer for the *Penn State*, the University's primary alumni magazine. In her new role, she will concentrate on preparing major gift proposals for the Division of Development and Alumni Relations.

A native of Cardiff, Wales, McCarthy came to Penn State in 1990 as a graduate assistant/teacher of rhetoric and composition. She joined the *Penn State* staff in 1993 and also has worked as a proofreader for the Penn State Press and as managing editor of *Hospitality*, a publication of the Waiter's Association, based in State College.

She holds a bachelor's degree in English and American literature from the University of Warwick, Coventry, England. While in England, she also taught English as a second language for Germans and worked as a staff assistant for British Telecom Applied Computer Technology and for the Howard Organization, a recruitment agency for technical and scientific fields.

McCarthy also has studied linguistics at the University of Flensburg, Germany, and is currently studying for a master's degree in English at Penn State.

Agricultural Sciences appoints director of development

Daniel A. Macaluso has been named director of development for the College of Agricultural Sciences.

Macaluso came to the college in 1994, serving as associate director of development and managing major gift prospects. In March of this year, he assumed the position of interim director, overseeing a fund-raising program that received more than \$3.6 million in gifts in 1995-96.

In earlier positions at the University, Macaluso served as director of development for the former School of Communications, development officer for the Eberly College of Science and regional coordinator for the Office of Annual Giving. Before joining Penn State, he was district circulation manager for the *Cent Daily Times* and a financial consultant with Professional Planning Consultants.

Macaluso earned a bachelor of science degree in marketing from Penn State in 1987 and is currently involved in a master's studies program in higher education. He is a board member of the Faith Alliance Church of State College and works as the venue coordinator for gymnastics events with the Pennsylvania Special Olympics Summer Games.

Interim head named new CEO of Allentown Campus

Eugene R. Slaski, acting campus executive officer and academic officer at the Penn State Allentown Campus since July 1995, has been named campus executive officer of the campus.

Under the Penn State redesign plan approved by the Board of Trustees in July, the Allentown and Berks campuses will be merged into the two-campus Berks-Allentown College.

The plan, known as "Penn State's Campuses: A Plan for the Future," outlines a framework that will help Penn State's 17 undergraduate campuses and other locations help Penn State's plan, developed through a comprehensive, yearlong process of planning and consulting that invited proposals from the campuses as well as members of the communities near the campuses, will take effect on July 1, 1997.

Slaski has been an associate professor of history at the campus since 1979. He was an assistant professor of history at the campus between 1972-79 and an instructor of history between 1970-72. Previously he taught at Florida State University, in the Allentown Campus's continuing education program and at Liberty High School, Bethlehem.

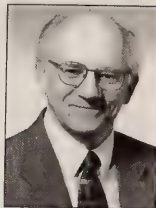
He has written *Poorly Marked and Worse Labeled: Being a History of the Port Wadens of Philadelphia, 1766-1907* and *Thomas Willing: Moderation During the American Revolution*, and edited "I Feel Like I'm Fixin' to Die: The Letters and Remembrances of Vietnam Marine Sgt. Andrew Lewandowski," a collection of letters and audiotapes in the oral history collection at the Marine Corps Historical Center in Washington, D.C. He is currently writing *I Feel Like I'm Fixin' to Die: A Study of One Vietnam Marine's Experiences with Vietnam and Post-Traumatic Stress Disorder*, based on the materials in the Marine Corps collection.

An expert in Pennsylvania history and the Revolutionary War, Slaski was also academic project director for "Penn's Dream," a WPX-TV video presentation on the tricentennial of the Pennsylvania colony.

Slaski is currently a member of the Allentown Campus Advising Team and Allentown Campus Faculty Senate, and a former member of the University Faculty Senate. In 1972-73, he chaired the campus's Academic Affairs Committee. He has chaired many task forces and committees, including the Campus Senate Task Force on Academic Diversity, 1990-91, the Campus Strategic Planning Committee on Academic Programs, 1989-90, and the Campus Strategic Planning Steering Committee, 1989-1991.

He holds a Ph.D. degree in history from Florida State University, a master's degree in history from Lehigh University and a B.S. degree with honors in secondary education (a double major in social studies and English) from East Stroudsburg State College.

Searches for other campus executive officers are currently under way at the Hazleton, Wilkes-Barre and Mont Alto campuses.



Eugene R. Slaski

Career day set for Oct. 17 for underrepresented groups

Recruiters from business, industry, government and non-profit agencies will be scouting for minority interns, co-ops and full-time employees at Penn State's 14th annual Multicultural Career Awareness Day on Thursday, Oct. 17, in the HUB on the University Park Campus.

Designed for students of color and students with disabilities, the Career Day is open to students at all academic levels and in all academic disciplines who are looking for information on career opportunities, advice on resumes and job applications as well as actual interviews with potential employers.

"We work with all the academic colleges to hold career fairs throughout the year on specific types of employment such as engineering, business and agriculture for all students, but this career day is especially nice because it has such strong advising and career development components to it. It also attracts students from all the colleges," Jack Rayman, director of Career Development and Placement Services, said. "We also encourage faculty and advisers to

attend so they can better understand the current employment market for their students and help students meet employer needs."

The day begins with a student-employer luncheon at Johnston Commons at 11:30 a.m. when students are matched with employer participants, according to career interests. Students can register in advance for the lunch at the career development office in 408 Boucke Building or by contacting the minority coordinator in their college.

The actual fair is scheduled for 3:30 to 8 p.m. in the HUB Ballroom and Fishbowl. Students are encouraged to arrive prepared to discuss their interests with employers and distribute up-to-date resumes. A number of company and agency recruiters schedule actual job interviews with students the following day, Friday, Oct. 18, in the Interview Center in McAllister Building.

"Last year, we had about 80 employers, and all indications so far are that we will have a good employer turnout again this year," Rayman said.

Ceramics company president is honored as an Alumni Fellow

Kim Young Ju, president of Haeng Nam Sa Co. Inc., Korea's largest ceramics manufacturer, has been named a Penn State Alumni Fellow, the highest honor awarded by the Penn State Alumni Association.

Kim, a 1974 MBA alumnus of The Smeal College, was honored with the alumni award in a ceremony in Seoul. Fifty-five-years-old, Kim leads a firm that had sales of \$36 million in 1993 and capital assets of \$5.9 million. Haeng Nam Sa was founded by Kim's grandfather in 1942 and control of it was passed to him by his father. The company manufactures and exports bone china, porcelain and stoneware, importing most of its raw materials. In 1985, Haeng Nam Sa exported ceramic ware factories and technology to Venezuela, becoming the first Korean ceramics firm to export plant facilities. The company continues to export such materials as refractory fire brick, furnace and oven parts, and stone cutting and grinding machines, among other items.

Kim is president of the Korean Chapter of the Penn State Alumni Association. Before entering The Smeal MBA program, he earned a B.E. degree from Hanyang University.



Kim Young Ju

Donors attend recent dedication of Behrend Engineering Complex

Penn State Erie, The Behrend College, dedicated its 55,000-square-foot Engineering Complex, honoring the area industrialists who made the building a reality. The complex, housing a variety of state-of-the-art labs and more than \$10 million in computer hardware and software, has already established itself on the national level and serves as a model partnership between industry and education.

One highlight of the complex is the Plastics Technology Deployment Center. In operation for three years, this partnership between Penn State Behrend, the Cleveland Advanced Manufacturing Program and the federal government has already had a \$14 million impact on western Pennsylvania and eastern Ohio. It is estimated the center has created or saved \$6.4 million worth of jobs by creating new sales markets and manufacturing efficiencies.

The Engineering Complex consists of four buildings connected by a large atrium hall; a new tree-lined plaza graces the western entrance to the facility. The areas are named: the James O. Benson Building, the R.J. Fasenmyer Building, the Loranger Plaza, the Joseph J. Prischack Building, Paul



Building dedicated

William Witkowski, left, president and CEO of Port Erie Plastics, is interviewed by Erie television anchor Scott Bremner following the dedication of the Engineering Complex at Penn State Erie, The Behrend College. The two met in the plastics laboratory of the R.J. Fasenmyer Building, the largest academic plastics processing lab in the nation.

and Margaret Roche Hall and The Witkowski Building.

Additional honorees who helped to make the complex a reality include Phil Tredway, founder and president of Erie Molded Plastics Inc.; Shawn Rooney, president of Niagara Plastics; Multi-Tool and Multi-Plastics, two Saegertown companies represented by Charles Johnston; and Johnson Controls, represented by Thomas Bly, general plants manager. Unable to attend were Jeffrey Yates, chairman and ceo of Yates Co., and Willi Maier, president of Omni Plastics.

Promotions

Staff

Pennie A. MacLean, manager, Financial & Administrative Services, in Commonwealth Educational System.

Diane L. Maggs, staff assistant VI in the Eberly College of Science.

Richard Mann, fire protection engineer at The Hershey Medical Center.

William A. Marsh, systems analyst in College of Engineering.

Larry Mayes, supervisor, area services, in Office of Physical Plant.

Patricia J. McFadden, program aide at the Penn State Great Valley Campus.

Phyllis A. McGarvey, staff assistant VIII in Applied Research Laboratory.

Mary L. McHose, operations assistant at The Hershey Medical Center.

Gerald T. McLaughlin, director of development in Division of Development and University Relations.

Kris M. McNeel, staff assistant V in Research and Graduate School.

Masayo M. Metz, applications systems analyst at The Hershey Medical Center.

Linda Miller, staff assistant VI in College of Earth and Mineral Sciences.

Willie A. Minggia, information systems assistant II in Computer and Information Systems, Center for Academic Computing.

Karen V. Mozley-Bryan, coordinator, communications facility and equipment, in College of Communications.

Awards

University honors two with Chambers award

Ralph R. Hosterman Jr., director for student loans and scholarships, and Clifton R. Sando, financial officer at Penn State Erie, The Behrend College, have received the 1996 Charles R. Chambers Memorial Award.

The award, established in 1979 by the family and friends of the late director of accounting at the University from 1967 to 1977, honors employees of the Corporate Controller's Office who "exhibit a conscientious and dedicated attitude toward their professional responsibilities above that normally expected or required."



Ralph R. Hosterman Jr.



Clifton R. Sando

officer at the Penn State Shenango Campus; in August 1984 he was promoted to his current position.

Hosterman began his employment with the University in 1974 in Housing and Food Services and held various positions in that department. In 1980, he transferred to the Student Loans and Scholarships Office and held various positions in that office; in October 1991, he was promoted to his current position.

Sando began his employment with the University in 1970 as a financial officer at the Penn State Shenango Campus; in August 1984 he was promoted to his current position.

Ag video receives award

A video produced by the College of Agricultural Sciences and the County Commissioners Association of Pennsylvania has received a merit award in the 1996 Awards of Excellence Program sponsored by the National Association of County Information Officers.

The video, "24 Hours in County Government," features local officials and county activities from Blair, Cumberland, Dauphin, Franklin, Lancaster, Lehigh, Lycoming, Mercer, Northampton, Somerset, Westmoreland and other counties.

It was produced by Steve Williams, senior producer-director in Agricultural Information Services, in cooperation with the County Commissioners Association of Pennsylvania and with assistance from Diane V. Brown, associate dean and affiliate assistant professor of agricultural and extension education, and Tim Kelsey, assistant professor of agricultural economics. John Dickison, senior producer-director, was the editor and videographer for the project.

The video covers a wide range of issues and activities that county governments handle daily, including emergency services, child and senior care, welfare, justice and law enforcement, record-keeping and health services.

Food service facilities cited

Eight food service facilities from the United States and Great Britain have been honored in the 1996 Food Service Equipment & Supplies Specialist/Restaurants & Institutions Facilities Design Awards competition. The program, now in its 50th year, honors excellence in designs for new or renovated projects.

Penn State was included in this year's honored facilities for the design of its High Acres Cafe on the Penn State Hazleton Campus. The facility was designed by Clever-Frable LaVallee, White Plains, N.Y. Judges examined floor plans, photographs and written presentations for 30 entries.

Health and Human Development names two as outstanding alumni

The Alumni Society of the College of Health and Human Development honored two outstanding alumni, Gregory D. Miller and Scott M. Smith.

Miller is the recipient of the 1996 Alumni Recognition Award which honors graduates of the college for professional excellence and/or exemplary volunteer community involvement in the health and human development professions. Miller received his master's degree in 1982 and his doctorate in 1986, both in nutrition.

He is vice president of nutrition research/technical services at the National Dairy Council and plays a

key role in policy and research agendas of government and professional groups.

Smith received the college's Emerging Professional Award, which recognizes professional excellence and community involvement of a college alumnus who has graduated in the past six years. Smith is a project scientist and research nutritionist at the NASA Johnson Space Center in Houston.

Smith has been instrumental in defining the nutritional requirements for extended-duration space flight, which will be used for the International Space Station.

Nominations sought for three teaching fellow awards

Nominations are being sought for the 1997 Atherton, Eisenhower and Alumni Teaching Fellow Awards. All of these awards will be presented at the Awards Convocation in March 1997.

The George W. Atherton Award for Excellence in Teaching recognizes excellence in teaching performance in the undergraduate program of the University. Up to four awards will be presented. Faculty members at all locations are eligible.

To be eligible for nomination for the Atherton Award, a faculty member must have been a full-time member of the University faculty for a minimum of three years; have undergraduate teaching as a major portion of her or his assigned

duties; and have the rank of assistant professor, associate professor or professor.

The Milton S. Eisenhower Award for Distinguished Teaching will be presented to up to two individuals. To be eligible for nomination for the Eisenhower Award, a faculty member must be tenured; have been employed as a full-time University faculty member for at least five years; and have undergraduate teaching as a major portion of her or his assignment. Members of a research staff, administrators (including department heads), and those who are predominantly teachers of graduate students are not eligible for this award.

The Alumni Teaching Fellow

Award has been established jointly by the Alumni Association, the Undergraduate Student Government and the Graduate Student Association. This award honors outstanding teaching while providing encouragement and incentive for teaching excellence at Penn State. One award will be presented at the Awards Convocation.

Recipients of the Alumni Teaching Fellow Award are expected to share their talents and expertise with others throughout the University system. Yearlong responsibilities may include activities such as participating in workshops and symposia, giving lectures or presentations on teaching techniques for new faculty and graduate assistants, taking part in discussions or

seminars with students in the University Scholars Program and teaching honors courses. To be eligible for nomination for this award, a faculty member must be full-time, with a minimum of three years teaching experience. Evaluations will be based on demonstrated excellence and lasting impact in the following areas: scholarly teaching, academic advising and overall career guidance, and enthusiasm and commitment.

Deadline for nominations for the awards is Oct. 25. For more information and nomination forms, contact the Office of Undergraduate Education, 417 Old Main, University Park or call (814) 863-1864.

Research

Do the golden years begin with spouse's retirement?

By PAUL A. BLAUM
Public Information

Does the husband's retirement signal the onset of the couple's golden years? Not necessarily.

"The husband's retirement can have both negative and positive effects on a marriage," Scott M. Myers, doctoral student in sociology and demography, and Alan Booth, professor of sociology and human development, said. "It seems clear, however, that when retirement leads to any sign of a reversal of bread winning roles, marital quality declines."

Men who retire from jobs then fail to help still employed wives with house or yard work may be compromising the well-being of their marriage. Because a substantial and increasing number of women are in the labor force and are younger than their spouses, their husbands often retire before they do.

"Retired husbands who balk at housekeeping and maintenance place a strain on their marriage," Myers and Booth said. "This strain is exacerbated when the wife still works and her retired husband feels threatened by her professional standing."



Alan Booth, professor of sociology and human development, left, and Scott M. Myers, doctoral student in sociology and demography, review their findings.

Photo: Greg Greco

Myers and Booth are co-authors of the paper, "Men's Retirement and Marital Quality." They obtained their data from a 12-year longitudinal study of a national sample of 2,033 married persons interviewed four

times between 1980 and 1992. Only married individuals aged 55 and under in 1980 were included in the sample.

"The wife's job status is directly related to the effect of retirement on

marital quality," Myers and Booth said. "Each additional hour worked or income earned by the wife lowers the positive aspects of marital quality (i.e. happiness and interaction) and raises the negative aspects of marital quality (i.e. problems, disagreements and instability)."

"Of course, the husband's retirement can improve the quality of a marriage," Myers and Booth said. "If he has an unpleasant, low-status job that absorbs many hours a week or interferes with family life, he may be delighted to retire with the result that his marriage is happier than before."

On the other hand, husbands with a rewarding and prestigious job may find the loss of status upon retirement so stressful that marital quality suffers.

"Overall, high-quality marriages improve after the husband's retirement," Myers and Booth said. "Our evidence suggests that retirement benefits stable and happy marriages, whereas retirement harms marriages judged to be unhappy, conflict-ridden or unstable."

"Finally, it is important to note," Myers and Booth said, "that these results hold regardless of the couple's financial status."

Going global may mean change in culture

By NANCY CRABB
Penn State Great Valley

Executives seeking a management style to boost productivity may need to make changes far more sweeping than Total Quality Management or other "business strategies du jour," according to a researcher.

In their quest to heighten employee motivation, loyalty and the bottom line, U.S. corporate executives should learn from peers in Japan, Korea and other cultures where team — rather than individual — goals are the norm, John J. Sosik, assistant professor of management science and information systems at Penn State Great Valley, said.

Sosik is co-author of *Bridging Leadership and Culture: A Theoretical Consideration of Transformational Leadership and Collectivistic Cultures* with Bernard M. Bass, distinguished professor emeritus and director of the Center for Leadership Studies at the State University of New York at Binghamton; and Dong I. Jung, a doctoral candidate also at SUNY Binghamton.

In recent years, management gurus have increasingly touted the merits of "transformational" leadership — a management style research has shown to promote the highest levels of both employee and overall organizational performance.

In brief, transformational leaders spur greater-than-expected performance of subordinates by:

(a) raising employee awareness of an organization's vision and the importance of accomplishing goals;

(b) helping employees transcend their self-interest for the overall success of the organization;

(c) stimulating employees to view old problems in new ways; and

(d) providing individual consideration and attention to employees.

But management theorists have generally overlooked the fact that transformational leadership may be most effective and common in "collectivistic" cultures such as Japan, whose members have been taught from childhood to focus their energies on the goals and needs of the group rather than on themselves.

To truly realize the benefits of transformational leadership, management experts should put aside parochial biases toward North American management theory and organizational psychology, Sosik said.

"It's obvious that there's a lot that's working very well in the East. We need to take more of a long-term view of management strategies, putting in the time and effort with the understanding that the result will be worth it."

"We certainly aren't saying American companies are doomed because most of their employees didn't come from collectivistic cultures like Japan," he said. "But some context is necessary here: U.S. executives can't simply attend a one-day seminar and decide, 'Wow, this transformational leadership stuff is great. I think I'll implement it next week.' They need to recognize that a certain culture needs to exist for this to work, and it may take some time and thought before they can make the changes necessary to create that culture."

Can conservative interest groups cancel out organized labor vote?

For the national elections, the AFL-CIO is spending \$35 million to oust congressional Republicans and reelect Clinton-Gore.

But delivering the union vote is often easier said than done. Many union members are social conservatives and may be influenced by the Christian Coalition and National Rifle Association.

A survey of more than 1,200 Pennsylvania union members conducted by Paul Clark, professor in the Department of Labor Studies and Industrial Relations, and Marick Masters, professor in the University of Pittsburgh Katz Graduate School of Business, shows that unions may counter the potential influence of these socially conservative groups by focusing on a workers' economic agenda.

Some of the key highlights of their comprehensive survey of Pennsylvania union members' political activities and beliefs include:

■ Only 22.1 percent of the union members support the political goals of the Christian Coalition.

■ While 33.9 percent of the union members' support the political goals of the NRA, 34 percent are not supportive at all.

■ About 51.7 percent of the union members would generally or always vote for candidates endorsed by their union. Only 9.7 percent would do so for candidates endorsed by the Christian Coalition (if the organization endorsed candidates) and 18.9 percent would vote for candidates endorsed by the NRA.

■ About 26.1 percent are less supportive of the Christian Coalition than they were a year ago and 25.6 percent are less supportive of the NRA.

■ Almost 80 percent of the union members would vote for a union-endorsed candidate even if the NRA endorsed the opposing candidate, and 82.7 percent would vote for a union-endorsed candidate even if the Christian Coalition endorsed the opposing candidate.

ATHLETICS

A regular column provided by Intercollegiate Athletics

New soccer assistant

Tim Rosenfeld is the new men's soccer assistant coach. He replaces **Ted Gillen**, who left Penn State to pursue a professional soccer career with the New York/New Jersey MetroStars of Major League Soccer.

Rosenfeld hails from Thunder Bay, Ontario, Canada, and attended the University of Toronto. Last year, he coached the Under-14 Ontario Provincial team and was the goalkeeper coach for the Under-17 Canadian National Team.

Tarman honored

Jim Tarman, former Penn State athletics director, has been inducted into Gettysburg College's Hall of Athletic Honor.

Tarman, who retired as athletic director following the 1993 football season, is a 1952 graduate of Gettysburg where he was elected to Phi Beta Kappa and graduated with honors in history and social studies. Tarman is the first inductee in a special category that recognizes "Gettysburg graduates who have distinguished themselves in the field of athletics following graduation." Tarman spent 36 years on the Penn State staff.

On the air

The Nittany Lions' Oct. 5 meeting with Ohio State in Columbus will be carried at 3:30 p.m. by ABC Television, the 25th consecutive Penn State game to air on TV.

On board

Pat Donghia, director of sports information and promotion at Lock Haven University for six years, has been named assistant sports information director at Penn State. Donghia, an Allegheny College graduate, also worked as assistant at Edinboro University, while earning his M.A. in communications studies.



Twist and shout

Inside the milking barns off of Park Avenue on the University Park Camps, Roy Butler (left) and Albert Rossman (right) tighten a few connections before completing some routine maintenance. The two men are Dairy and Animal Science employees.

Photo: Andrea Hurley

Obituaries

William E. Dreibelbis, former employee of the Department of Agronomy in the College of Agricultural Sciences, died Sept. 23 at the age of 94.

Dreibelbis, who retired from Penn State in 1978, was a member of the Washington Grange 157 in Pine Hall, the Pennsylvania State Grange and the National Grange.

Maria E. Noss, linen room worker with Housing and Food Services, from April 1, 1958, until her retirement May 1, 1968; died July 6 at the age of 93.

Donald I. Pettingill, production assist-

ant in the bakery, Housing and Food Services, from Aug. 22, 1938, until his retirement Sept. 1, 1973; died Aug. 16 at the age of 80.

Preston R. Robb, accountant for HUB Food Services in Housing and Food Services, from Sept. 9, 1955, until his retirement June 30, 1981; died Aug. 16. He was 78.

Nancy C. Rose, a former food service worker, died July 22 at the age of 92. She was a Gold Star Mother, a special designation for those whose children died while serving in the military in World War II. She is survived by two

daughters, four sons, two sisters, two brothers, 27 grandchildren, 26 great grandchildren and one great-great grandchild.

David W. Russell, professor of education in the College of Education, from Sept. 1, 1949, until his retirement Oct. 1, 1968; died Aug. 9. He was 93.

Mark A. Van Slyke, assistant professor of radiology at The Hershey Medical Center, from Aug. 1, 1993, until his death Aug. 16. He was 39.

Doris E. Whitman, senior clerk, Penn State Harrisburg, from Sept. 1, 1966, to Oct. 1, 1986; died June 17. She was 71.

Carpooler

Carpoolers wanted from Beech Creek or Howard area to University Park. Hours are 8 a.m. to 5 p.m. Please call **Amanda** at (814) 863-6747 or (717) 962-2411 (evenings); or e-mail ajf9@psu.edu.

For the record

The correct date for the Summer Session 1997 commencement at University Park is Saturday, Aug. 9, 1997. The undergraduate ceremony is set for 10:30 a.m. in The Bryce Jordan Center. The Graduate School commencement is at 2 p.m. in Eisenhower Auditorium.

PENNSTATE INTERCOM

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University, township agree on tax settlement

Penn State and College Township have agreed to an impact fee on some non-athletic events as a way to resolve an effort by the township to impose an amusement tax ordinance on the University. The agreement was approved by the College Township Council at its regularly scheduled meeting Thursday, Oct. 3.

The University will work cooperatively with College Township to implement an impact fee on some non-athletic events held at The Bryce Jordan Center and Beaver Stadium as

a means for the township to collect revenue.

The 20-year agreement will go into effect retroactively to Sept. 1, and officials on both sides say it brings closure to the issue of implementing a tax on certain events at the Jordan Center and Beaver Stadium. Collection of the impact fee will not start until Jan. 1, 1997. Until then, the township will receive the funds it would normally expect to receive as part of an earlier agreement it signed with the University along with the other area municipalities, the county and the State Col-

lege Area School District. College Township withdrew from that agreement on July 1.

College Township will leave the amusement tax ordinance on the books, but will not pursue it relative to Penn State.

The terms of the agreement include:

- For concerts, family entertainment and special events conducted at the Jordan Center and Beaver Stadium for which tickets are sold, Penn State will collect and pay an impact fee to College Township.

- Tickets priced at less than \$10 will have no impact fee.

- Tickets costing \$10 to \$19.99 will have a 50-cent impact fee.

- Every additional \$10 increment will add another 50 cents to the impact fee.

- The University will make payments to the township quarterly.

- The impact fee will exclude college football and basketball games and other sporting events, such as possible PIAA competitions.

See "Settlement" on page 3

HUB to stay open 24 hours a day

Penn State students now have a place to study all night long and enjoy additional alcohol-free social programs on the weekends at the Hetzel Union Building, thanks to an initiative led by Undergraduate Student Government.

USG and the University's Offices of Student Affairs and Housing and Food Services have developed a plan that provides weekday 24-hour staffing, limited food services and late-night weekend activities, staffing and food services.

"We are excited about working in partnership with the University in this new initiative," said USG Vice President Ed Kitzpela. "After many months of discussions, we are pleased to announce these options for students for places to study or to socialize in an alcohol-free environment."

The ground floor of the HUB, which is the main student center at the University Park Campus, remains open 24 hours for students to study or to hold meetings. The 24-hour schedule will be held Sundays through Thursdays during the fall and spring semesters.

See "HUB" on page 3



Day of Caring

Vincent Scalomagna, assistant manager of the ice rink at the University Park Campus, left, works with Joel Blunk of the State College Presbyterian Church and Becky Markel of Geisinger Medical Center to make improvements at Lederer Park in State College. The project was one of several planned for the United Way Day of Caring on Oct. 3. For more on the United Way, please see story on page 3.

Photo: Greg Grieco

Inside



Recycling

Stepped-up recycling efforts from faculty, staff and students have saved the University thousands of dollars in the past year. For details, please see the story on page 10.



Research

An associate professor of education has documented the importance of regular, constructive feedback. For details, please see the story on page 11.

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■ Cancer Awareness Week

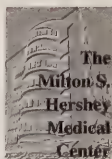
Full schedule of activities planned at Hershey

The Hershey Medical Center is marking Cancer Awareness Week with several activities.

■ **Oct. 12-20:** The center will sponsor the Pennsylvania Breast Cancer Coalition's traveling photo exhibit, "67 Women — 67 Counties: Facing Breast Cancer in Pennsylvania." The display, in the main lobby of the medical center, is interactive, allowing the community to attach photos, notes or other remembrances of friends or loved ones affected by breast cancer.

The exhibit features women from throughout the state who are living productive lives after triumphing in their fight against breast cancer; those who are currently coping with treatments for the disease; and a few who have lost the fight but whose lives give courage and inspiration to others.

Support for the exhibit was provided by the Pennsylvania Department of Health, Bureau of Preventive Health Programs and the Cancer Control Program.



believes cancer patients can take emotional and psychological actions to participate with the medical team in their fight for recovery. She will address psychological theories and cancer survival, issues during diagnosis, treatment, remission/recurrence and psychological responses, as well as the "patient active" concept.

■ **Oct. 14:** From 6:30 to 8 p.m. the center is sponsoring a lecture by **Constance M. Carino**, founder and executive director of The Wellness Community in Philadelphia. Carino's talk, "Survivorship for Cancer Patients," is free to the public.

More than 8 million people in the United States have survived cancer. Carino

■ **Oct. 15:** From 7 to 9 p.m. the center will hold

a "Cancer Call-in Night." The public may call (800) 531-1535 to receive help with cancer-related questions. Physicians, nurse coordinators and other members of the care team from the cancer center will be available to answer questions related to oncology treatments, nutritional concerns, medical side effects and where to find additional information.

■ **Oct. 16:** From 7 to 8 p.m., the center will hold a discussion led by Dr. **Rodrigue Mortel**, associate dean and director of the cancer center, who will speak on "Cancers: Can We Control Them?" The talk will be held in the University Communications Center, 140 Sipe Ave., Hershey, and will include discussion with interactive exchange. The discussion is free to the public, but registration is required to ensure adequate seating. To reserve seats, call the Cancer Careline at (800) 531-1535.

Cancer awareness week is held during the month of October, which is National Breast Cancer Awareness Month.

News in Brief

Courses

The following courses are being offered through the Office of Human Resources. To register for free courses, please call (814) 865-8216 or contact **Jan Hawbaker** at (814) 865-3085 or by e-mail at jgh308@psu.edu. Registration for fee-based courses requires a completed registration form located on page 67 of the HRDC course catalog. For full descriptions of the courses, please see the course catalog.

■ Writing Skills

Meets for eight sessions on Thursdays, Oct. 17 to Dec. 12, from 9:30 a.m. to noon in 520 Rider Building. Cost is \$95.

■ **The Secret of Success: Dynamics of Office Protocol**
Oct. 17 from 8:30 to 11:30 a.m. in 319 Rider Building. Cost is \$35.

■ **Developing and Leading an Organizational Commitment to Diversity**
Oct. 18 from 9 a.m. to 4 p.m. in 319 Rider Building. Cost: none.

■ Connections

Meets for two sessions on Tuesday and Thursday, Oct. 22 and 24, from 8:30 to 11:30 a.m. in 319 Rider Building. Cost is \$70.

■ Designing Winning Research Proposals II

Oct. 23 from 9 a.m. to noon in 125 Reber Building. Cost is \$50.

■ Culinary Hearts Kitchen

Meets Thursdays, Oct. 17 to Nov. 21, from 4 to 6 p.m. in Room 7 Henderson Building. Cost is \$40, reimbursable to HMO participants.

■ HIV/AIDS Network Update

Meets from 12:30 to 2 p.m. Monday, Oct. 21, in 16 Ritenour Building. Cost: None. Participants may attend a meeting of the HIV/STD Consortium which precedes the session from 11 a.m. to 12:30 p.m.

■ Employee Assistance Program (EAP) Courses

Meets from 8:30 to 9:15 a.m. Tuesday, Oct. 22, in 118 Ag Sciences and Industries Building. Cost: None.

■ EAP: The Supervisor's Role

Meets from 8:30-10:30 a.m. Tuesday, Oct. 22, in 118 Ag Sciences and Industries Building. Cost: None.

Medieval Harvest Picnic

The Center for Medieval Studies will hold a Medieval Harvest Picnic at the Centre Furnace Mansion at 4:40 p.m. Sunday, Oct. 13. Chef **James Foss** of the Atherton Hotel will prepare his own harvest bread plus a number of authentic medieval dishes.

Before the meal, author **Bridget Henisch** will give an illustrated talk about how the people of medieval Europe prepared their harvests for the winter.

The afternoon's activities are open to the public. Tickets are \$15 each and may be reserved by calling the center at (814) 863-7484.

Radon services available

The Low Level Radiation Monitoring Laboratory (LLRML) of the Nuclear Engineering department at University Park is making its radon monitoring services available to faculty, staff and the community. Much of Centre County is located in a relatively high radon area.

If you have been thinking about having your home tested for radon, now is the proper time to do it. EPA specifies that initial short-term radon measurements be conducted under closed house conditions, with all windows and outside doors closed and all exhaust vents unused for 12 hours prior to the test and throughout the three-day testing period. During this time, normal entrance and exit is allowed as long as the doors are not left open for more than a few minutes.

Another service offered by the LLRML is determination of dissolved radon in ground water drinking sources.

For more information, call (814) 863-2647 or **William A. Jester**, professor of nuclear engineering, at (814) 865-2011.

The total cost of each radon kit (along with instructions on how to apply it and a written test report after the analysis was performed) is \$25.

The radon in water tests are conducted in duplicate to confirm that the samples were conducted in a reproducible manner. The cost of this kit is \$65.

Faculty Senate to meet Oct. 22

The University Faculty Senate will meet at 1:30 p.m. on Oct. 22 in 112 Kern Graduate Building.

Items to be addressed include:

■ Curriculum report of Oct. 10

■ Resolution from the Senate Committee on Student Life (legislative)

■ Commonwealth Educational System intramural, recreational and club sports (informational)

■ Joint Committee on Insurance and Benefits annual report for 1995-96 (informational)

■ A presentation of library expansion plans and their implications for the faculty (informational)

■ University Planning Council status report (informational)

■ Update on general education review (informational)

■ Mid-semester evaluation process 1992-95 (informational)

Members of the University community may attend. Any member of the University community not a member of the Senate may request to speak on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting at which the individual wishes to speak.

HUB

continued from page 1

In conjunction, The Cellar, a HUB eatery, will stay open until 11 p.m., and another eatery, Dough-to-Go, will operate from 11 p.m. through the following morning during the same weekdays.

On Oct. 19, USG, in coordination with various other organizations, is planning to kick off the Friday and Saturday weekend activities on the first floor of the HUB, as well as the extended ground floor hours for student use.

Kilpela says that USG will sponsor or co-sponsor with other student organizations a wide range of events such as acoustical music, jazz, folk singers, open mike, movies and comedians.

The programming will be made possible by working with the Interfraternity/Panhellenic Councils, Association of Residence Hall Students, Student Organization Budget Committee, Asylum and University Council Committee.

"The idea is to schedule activities throughout the first floor of the HUB and keep the ground floor open until 2 p.m. The building will close at 3 a.m. on Fridays and Saturdays," said USG President Sharon Entenberg. "A number of student groups already have scheduled events in the HUB Ballroom, and we hope to work with them to expand their programming until 2 a.m."

In addition, The Cellar will remain open on Fridays and Saturdays until 3 a.m., providing its regular menu. The additional staff will be funded by the University's Student Affairs and Housing and Food Services offices.

President **Graham B. Spanier** said, "I am delighted that our student leaders have succeeded in developing a plan to provide expanded student programming in the HUB. This is a positive step in Penn State's efforts to give students healthy, but fun alternatives to attending events where alcohol is the focus."



Open all night

The Hetzel Union Building on the University Park Campus is now open 24 hours a day Sunday through Thursday during fall and spring semesters for students to study or hold meetings. Limited food services will be available around the clock as well.

Photo: Greg Grieco

Settlement

continued from page 1

■ Other events such as University academic convocations, religious gatherings, banquets and similar food-related events will also be excluded from the impact fee.

"We're pleased that negotiations have led to an agreement that does not introduce an amusement tax to the community," said **Gary Schultz**, senior vice president for finance and business/treasurer. "I appreciate the fact that township officials met us half way and we hope that the resulting agreement will better benefit the community, the University and the visitors to the community who attend events at Penn State."

"This was the most rewarding negotiation I've ever participated in," said **Lee Shields**, representing College Township. "Both sides identified their goals early in the process and worked diligently to achieve them. The University was responsive and forthright. There was progress at each meeting which resulted in an agreement that addresses the needs and concerns of both parties and strengthens the town-gown relationship."

In signing the agreement, the township pledges not to pursue the amusement tax with Penn State. Township officials also

agree not to oppose the University's efforts to obtain agreement with other parties in modifying the existing settlement agreement.

Penn State officials met in recent weeks with officials from the other area municipalities that have been part of an in-lieu-of-tax agreement for several years and have indicated the University's desire to abide by that agreement.

The other entities involved include Centre County, State College Area School District, State College Borough, and Patton, Harris and Ferguson townships.

Penn State would like to have the original agreement with the other municipalities slightly modified, in particular to lengthen the period covered so that it coincides with the new College Township agreement, set to expire on Dec. 31, 2016.

In 1992, Penn State executed an agreement with surrounding municipalities to pay \$600,000 a year in lieu of property taxes. In addition, the University provides \$200,000 worth of services to the county, and pays approximately \$100,000 a year, in lieu of real estate taxes, for family housing on campus. Fees in lieu of real estate taxes are also paid for non-University-for-profit entities that rent space or land from the University.

Students are involved in annual Day of Caring

Greater awareness and more involvement are the goals of the student coordinators of the United Way Campaign at University Park.

"We wanted to get more students involved in the Day of Caring on Oct. 3," said **Jeff Nesbitt**, who is serving as campaign coordinator with **Andrew Conradt**.

"At the same time, we want to educate as many people as possible about what United Way is and how the agencies work. We have provided information and spoken to many of the Greek organizations about the Day of Caring and United Way," he said.

"We realize that not many people can volunteer, and a goal of our committee is to increase an awareness among students of the problems in Centre County and how United Way agencies are addressing them."

As student campaign coordinators, Nesbitt and Conradt serve on the Centre County United Way Board. In that capacity, Nesbitt attended a Big Ten United Way conference this past spring to learn about other student initiatives at Big Ten universities.

"After I came back from the conference, we formed a small committee and decided to focus on two events — the Day of Caring and the Blue and White basketball game."



"We spoke with more than 15 of the larger clubs about getting involved in the Day of Caring. We had students signed up from Lion Ambassadors, Golden Key National Honor Society and Lion's Share. It was somewhat difficult since students had classes that day."

The annual Blue and White basketball game, a pre-season scrimmage, is scheduled for Friday, Nov. 1, at The Bryce Jordan Center.

"We will have some 80 to 100 volunteers at the game to take tickets and help with the organization of the event," Nesbitt said. "We have invited all the United Way agencies in the community as well as anyone involved in this year's United Way campaign to attend. We will award prizes at the game for a half-time competition."

Nesbitt also has contributed to this year's campaign by creating a United Way Web page, which is stored on the University Relations Web server.

The United Way Web page address is <http://www.ur.psu.edu/uw>

LECTURES

Tuesday lectures to focus on "The Loss of Proportionality"

Ivan Illich, professor of science, technology and society and internationally acclaimed author and social philosopher, is in residence this fall on the University Park Campus, and is giving a series of public lectures each Tuesday evening through Oct. 22 at 6:30 p.m. in 112 Walker Building.

The Tuesday series is dedicated to "The Loss of Proportionality." In his lectures, Illich focuses on properly understanding the past by acknowledging that the assumptions we make about reality today are different from those of ancient societies. He examines the language and values of people of the past in order to understand the directions in which today's society is evolving.



Ivan Illich

Each week, Illich looks at historical breaks that indicate the loss of proportionality by looking at changes in the way we perceive, understand or use central aspects of our lives such as gender, economics, architecture and music.

Sometimes labeled an anarchist, Illich has published more than 11 books that cover a broad range of topics such as the disestablishment of compulsory education in

Deschooling Society, 1971; the evils of medical intervention, *Medical Nemesis: The Exploitation of Health*, 1976; and female/male complementarity in *Gender*, 1982.

Illich's lectures are sponsored by the Science, Technology and Society Program. For more information, contact the STS office at (814) 865-9951.

Homophobia in the black church topic of Oct. 17 talk

The Rev. Irene Monroe will give a talk at University Park, "Standin' in the Need of Prayer: Homophobia in the Black Church," at 4 p.m. Thursday, Oct. 17, in the Lipcon Auditorium of the Palmer Museum of Art. A reception will follow.

As a black, lesbian Baptist minister, the Rev. Monroe has become a national spokesperson against homophobia and racism. Raised in an all-black urban enclave in the 1960s and 1970s, the Rev. Monroe witnessed the uneasy relations among the black church and the civil rights and Black Power movements.

As a lesbian, she also witnessed and experienced the rejection of lesbian, gay and bisexual persons from these movements, and, as an African American woman, she was equally shut out of the Gay Rights establishment.

Her experiences ultimately led her to Union Theological Seminary in New York, where she earned a master of divinity degree to a variety of ministries, and then to Harvard Divinity School, where she is now writing her doctoral dissertation.

The Rev. Monroe has published widely in the areas of feminist theology and liberation, and has spoken around the country on the subjects of feminists and theologies, sexuality and spirituality as well as racism within the feminist and gay liberation communities.

Her talk is sponsored by Penn State's Commission on Lesbian, Gay and Bisexual Equity, the Center for Women Students and the Paul Robeson Cultural Center.

For more information, contact Mark Fearnow at (814) 863-1456 or by e-mail at maf8@psu.edu.

Graduate students to present seminar

The Department of Agricultural and Biological Engineering will present a seminar at 12:20 p.m. Monday, Oct. 14, in 239 Agricultural Engineering Building. Graduate student Joseph Millen will speak on "Reducing Sediment

Discharge from Sedimentation Basins with Barriers on a Skimmer" and graduate student Heather Warren will discuss "Design Outcome Differences in LRFD and ASD Hardwood Glued-Laminated Bridges."

President of trustees to give keynote address

Jesse Arnelle, president of the Board of Trustees, will give the keynote address at the fourth annual conference of the Penn State African American Alumni Interest Group. Other highlights include workshops and presentations, interactions with students, and music, dance and step performances.



Jesse Arnelle

The conference will be held Oct. 25-27 at the Nittany Lion Inn on the University Park Campus. Arnelle will give his address Oct. 26.

The conference, called "Preparing for the New Millennium — Politically and Economically," includes workshops on African Americans and the U.S. judicial system; legislative initiatives affecting the African American community; entrepreneurship, career development and counseling; a look back at the "Million Man March" on Washington, D.C., in October 1995; and the importance of "cultural light-houses" on college campuses.

Also taking part in the conference will be Jerry Dunn, Penn State's head basketball coach, and the Hon. Cynthia Baldwin, member of the Board of Trustees and a judge in the Allegheny County Court of Common Pleas.

Arnelle, the conference's keynote speaker, is a 1955 Penn State graduate who has served on the Board of

Trustees since 1969. He is a senior partner with Arnelle, Hastie, McGee, Willis and Greene, a 35-lawyer corporate firm based in San Francisco. In August 1993, it was named one of the top 12 African American law firms in America by *Black Enterprise* magazine.

The firm also has attracted the attention of *The New York Times*,

The Los Angeles Times and *The New Yorker* magazine, all of which have profiled Arnelle and his firm in recent years. As a Penn State undergraduate, he majored in political science, was elected all-University student body president and was invited into Lion's Paw. A member of the Nittany Lions football and basketball teams from 1951-1955, he was co-captain of the basketball team and was named All-American while receiving honorable mention in football.

Also on the program are opportunities to network with students, hear music by "Urban Fusion," a jazz group, and "Ecclesiastes," a contemporary gospel ensemble, and see a high-energy "step show" by Penn State fraternity and sorority members.

The registration deadline is Oct. 11. For information on registration, contact Lisa Lyles, conference planner, at (814) 863-1738.

Speaker offers postmodern view on what causes poverty

Lakshman Yapa, associate professor of geography, will speak on "What Causes Poverty: A Postmodern View" at the Sigma Xi October luncheon lecture at noon Thursday, Oct. 17, in 110 S. Henderson Building, the Living Center.

Yapa's lecture for the Scientific Research Society will explore the thought-provoking postmodern view on the causes of scarcity and deprivation in diverse societies from the United States to third-world countries. He believes that finding solutions for poverty using economic development has become the cause of modern poverty by focusing on raising income instead of using available resources and carefully examining the needs of the poor. The lecture is free to the public. Parking is available in the HUB parking garage.

Josephine Rhea Lecture set for Oct. 17

Albert N. Mancini, professor of Italian at The Ohio State University and editor of the journal *Italica*, will offer the 1996 Josephine Rhea Lecture in Italian Studies. The presentation, set for 7:30 p.m. Thursday, Oct. 17, is titled "Ariosto's *Orlando Furioso* and the Crisis of 16th Century Italy."

A renowned scholar of the epic,

Mancini is the author most recently of *I capitoli letterari di Francesco Bolognietti. Tempi e modi della letteratura epica fra l'Ariosto e il Tasso*.

The lecture will be held in 111 Chambers Building on the University Park Campus. Sponsored by the Department of Spanish, Italian and Portuguese, the lecture is free to the public.

More Lectures

Former New York mayor to speak Oct. 21

Ed Koch, former mayor of New York City, will speak on "What it Takes to be Elected in America Today" on Monday, Oct. 21, at 8 p.m. in Schwab Auditorium on the University Park Campus. Koch's lecture, part of the Distinguished Speakers Series, is co-sponsored by the Undergraduate Student Government. The lecture is free to the public, but tickets are required.



Ed Koch

Koch, mayor of New York for three terms (1978-89), is now a partner in the New York law firm of Robinson Silverman Pearce Aronson & Berman. He has his own radio talk show on WABC (77 AM) and a weekly column for the *New York Post*.

As mayor, he was credited with bringing New York from the brink of collapse, turning budget deficits into surpluses, creating new jobs and taking the city's unemployment rate to its lowest level in 20 years. Before serving as mayor, Koch served for two years as a member of the New York city council and nine years as a member of the U.S. Congress. Koch is currently an adjunct professor at New York University.

Tickets will be available in Room 225 of the Hetzel Union Building. The lecture series is presented by the Programming Coordination Board.

Telecommunications workshops planned

The Office of Telecommunications is offering three free workshops this fall to help University personnel manage their communications needs. "Telephone Excellence," "Voice Mail" and "Videoconferencing" sessions will aid Penn State employees in communicating with others.

"Telephone Excellence," a hands-on workshop designed to help people use the telephone and its features more effectively, will include these sessions: Centrex, MBS, Single Line and Rotary Dial Set Workshop from 9:30 to 11 a.m. Tuesday, Oct. 22; Merlin Basic Workshops from 9:30 to 11:30 a.m. Wednesday, Oct. 23, or Thursday, Oct. 31; and Merlin Advance Workshops from 1:30 to 3:30 p.m. Wednesday, Oct. 23, or Thursday, Oct. 31.

"Voice Mail" sessions follow: From 1:30 to 3 p.m. Tuesday, Oct. 22, and from 9:30 to 11 a.m. Monday, Oct. 28.

"Videoconferencing" intends participants with the PictureTel videoconferencing equipment which allows an interactive meeting to be held at two or more locations, is set for 1:30 to 3 p.m. Thursday, Oct. 24, or Tuesday, Oct. 29.

For more information or to register, call (814) 863-1354 or e-mail rose@otc.psu.edu, or visit the Web site at <http://www.otc.psu.edu/voice/tworkshop.html>.

Talk covers medieval Spanish literature

James F. Burke, professor of medieval Spanish literature at the University of Toronto, will present a talk under the auspices of the Department of Spanish, Italian and Portuguese. His lecture, "The Gaze in *Celestina*," will be at 8 p.m. Thursday, Oct. 24, in 111 Chambers Building. It is free to the public.

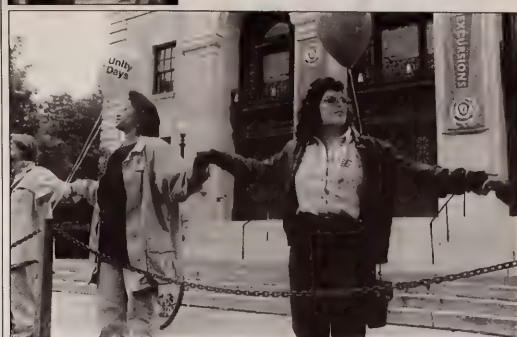
Burke is the author of *History and Vision: The Figural Structure of the Libro del Cavallero Zifar and Structures from the Trivium in the Cantar de Mio Cid*.

Research symposium

The Propulsion Engineering Research Center will host the Eighth Annual Symposium on Space Propulsion at the Nittany Lion Inn on the University Park Campus on Oct. 30 and 31. The Oct. 30 session runs from 8:30 a.m. to 5 p.m. The Oct. 31 session will be from 8 a.m. to noon.

Presentations in the areas of supercritical flows, atomization, spray combustion, advanced combustion diagnostics, nozzle flowfields, combustion stability, CFD applications, gas/gas injection, turbomachinery, combined cycle engines, hybrid rockets and advanced propulsion concepts are scheduled. For more information, contact John Raiser at (814) 863-6274, or e-mail jrcrper@engr.psu.edu.

Celebrating Unity



Hands Across Penn State

Unity Days, a series of events that spans two semesters, began Oct. 2 with Hands Across Penn State — a human chain formed as faculty, staff and students held hands at Penn State sites across the Commonwealth. At University Park, graduate students Lillie Wiley, left, and Kappy Arnoldsen were two of the estimated 200 people who formed a chain along the mall between Schwab Auditorium and Willard Building. Following the formation of the chain, students, faculty and staff spoke on the importance of developing a multi-cultural environment. The next Unity Days event will be a conference Nov. 5-6 at the Hetzel Union Building. The theme for this year's Unity Days is "Building Coalitions Through Education, Awareness and Cultural Sensitivity."

Photo: Greg Grieco

Commission for Women identifies issues to address in its 15th year

The Commission for Women began its 15th year of addressing the concerns of women faculty, staff and students in August by identifying several key issues on which it will focus during the 1996-97 academic year, including: developing strategies to increase the number of women in positions of leadership; establishing a stronger voice for staff within the University community; developing enhanced opportunities for professional development; examining ways to improve salary equity; and examining the successes and weaknesses of the Administrative Fellows Program. Also on the commission's calendar are the Annual Spring Banquet, scheduled for March 17, 1997, and the second Take Our Daughters to Work Day, tentatively scheduled for April 25, 1997.

Much of the commission's work occurs within its committees. Committees are made up of appointed commission members and volunteers. The committees are chaired by members of the commission's executive committee. The 1996-97 executive committee includes Nancy Herron, director of academic affairs, Penn State Dubois, chair of the commission; Mary Ann Chavey, staff assistant, Center for Sports Medicine, chair of the professional development committee; Tineke Cunniff, career counselor, Career Development and Placement Services, chair of the issues and policies committee; Mary K. Howell, professor of microbiology and immunology, Hershey Medical Center, chair of the liaison committee; Margaret Lyday, associate professor of English, chair of the committee on women's athletics; Deborah Meder, assistant controller, chair of the outreach committee; Ossie Parker, janitorial worker, chair of the

banquet committee; and Ellen Walker, academic adviser, The Smear College of Business Administration, chair of the nominations committee.

Several newly appointed members of the commission began their three-year terms on Aug. 1. New commission members are Robin Anderson, senior office information specialist; Eunice Askov, director, Institute for the Study of Adult Literacy; Helen Caffrey, director, Office of Commonwealth Relations; Wendy Closshey, undergraduate student, biology; Linda Enseli, DUS programs coordinator, Penn State Dubois; Mary Jane Irwin, professor, computer science and engineering; Lynda Goldstein, assistant professor of English, Penn State Wilkes-Barre; Josephine Herrera, director, diversity enhancement programs, College of Earth and Mineral Sciences; Corren Lewis, campus bus driver, Business Services; Sandra Podgurski, staff assistant, University Safety; Pranita Raghavan, undergraduate student, journalism; Linda Spangler, administrative assistant, Department of Economics; Noriko Toyokawa, graduate student, health education. New ex-officio members of the commission are Sharon Entenberg, president, Undergraduate Student Government, and Stephanie Shields, director, Women's Studies Program.

Commission for Women meetings are open to the University community. Fall semester meetings are scheduled from 1 to 3 p.m. today, 1:30 to 3:30 p.m. Nov. 14; and 1 to 3 p.m. Dec. 12. All meetings will be held in 404 Old Main. For more information or to obtain a volunteer application, call the commission office at (814) 865-1683.

The ARTS

AT PENN STATE



In concert

The U.S. Navy Tuba-Euphonium Quartet will perform a free concert at 2:30 p.m. Friday, Oct. 11, in the School of Music Recital Hall on the University Park Campus.

Tuba-Euphonium quartet

The U.S. Navy Tuba-Euphonium Quartet from Washington, D.C., will present a concert at 2:30 p.m. Friday, Oct. 11, in the School of Music Recital Hall on the University Park Campus. With a blend of original and transcribed works, this versatile quartet will play music by Mozart, Ramse, Dempsey, Mehlman and others. A master class for music students will follow the performance.

The concert is free to the public.

Glee Club concert

The Penn State Glee Club will present the 27th Annual Homecoming Concert, "Notes and Votes," at 7:30 p.m. on Saturday, Oct. 12, in Schwab Auditorium on the University Park Campus. Ticket holders will be able to cast ballots for their favorite presidential candidates in the First Glee Club Quadrennial Straw Vote.

The Homecoming Concert, Penn State's oldest choral tradition, will feature the 80-voice men's chorus performing "God Save Great Washington: A Medley of American Presidential Campaign Songs" and other works. Featured performers will include the Hi-Lo's, the Varsity Barbershop Quartet and special guests, Discantus from the Oriana Singers. Alumni will be invited to join in singing Penn State football songs at the conclusion of the program. Bruce Trinkle, associate professor of music, directs the Glee Club.

Tickets are \$6 for adults and \$2 for students and are available at the Eisenhower Arts Ticket Center, (814) 863-0255, open Monday through Friday 8:30 a.m. to 4:30 p.m.

Exhibit at Berks Campus

Members of Zone One Artists' Cooperative, based in Philadelphia, will present an exhibit titled "Works On Paper and Off Paper" in the Penn State Berks Campus Freyberger Gallery from Sunday, Oct. 13, through Thursday, Nov. 14. There will be a free public reception from 1 to 3 p.m. on Sunday, Oct. 13.

Zone One Artists' Cooperative consists of 26 members. Its purpose is to provide member artists with regular exhibition opportunities to help them develop their art in the context of a dialogue with critics, the public and other artists in an environment that is free of commercial pressure or censorship.

"Piano Entente"

Pianist Steven Herbert Smith will present "Piano Entente," a festival of solo recitals of recent piano music, Sunday and Monday, Oct. 13 and 14, in the School of Music Recital Hall on the University Park Campus. The Sunday performances will be at 3 and 8 p.m.; the Monday performance will be at 8 p.m.

Smith, professor of piano and a frequent local performer, has become a noted interpreter of contemporary

piano music in recitals and radio broadcasts in France, Germany, Spain and Hong Kong as well as in the United States. "Piano Entente" will present Smith's recently expanded repertoire of new music.

All three performances are free to the public.

Bach's Lunch

The Penn State Concert Choir, directed by D. Douglas Miller, professor of music, will perform for the Bach's Lunch concert at 12:10 p.m. Thursday, Oct. 17, in the Helen Eskin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Concert Choir consists of 54 singers; two-thirds are majors in the School of Music. The Bach's Lunch program will be selected from the choir's fall repertoire.

Dennis Malfatti, a graduate conducting major, is assistant conductor.

The concert is free to the public. Audience members may bring bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

"A Cry of Players"

The University Resident Theatre Company kicks off its 1996-97 season with William Gibson's "A Cry of Players," directed by Robert E. Leonard, professor of theatre arts. The play opens Oct. 18 at the Playhouse Theatre on the University Park Campus.

Written in 1948 and first produced on Broadway 20 years later, "A Cry of Players" blends fiction and fact to ponder the trials of a young ne'er-do-well poet named Will Shakespeare on the eve of his call to immortality.

Leonard is head of the M.F.A. directing program in the School of Theatre Arts.

"A Cry of Players" runs Oct. 18 through Oct. 26. Performances will begin at 8 p.m. There will be a matinee performance at 2 p.m. on Oct. 26. Two student previews will be shown Oct. 16 and 17. For ticket information call the Arts Ticket Center at (814) 863-0255, Monday through Friday, 8:30 a.m. to 4:30 p.m.

Steelon focus of exhibit

There are very few communities in central Pennsylvania with as much cultural and ethnic diversity as Steelton.

One man embraced this multi-ethnic industrial town near Harrisburg by documenting everything from daily activities to special events. John Yetter dedicated his life to compiling the most extensive photographic record of the history and culture of Steelton, Pa.

His collection, consisting of more than 2,000 photographs, more than 50 hours of oral history recordings and



BRYCE JORDAN CENTER

Gymnastics tour

The 1996 World Gold Gymnastics Tour, featuring Olympians Kerri Strug, Nadia Comaneci, Bart Conner and Jai Lynch, will perform at The Bryce Jordan Center at 7:30 p.m. on Friday, Nov. 15.

Tickets are on sale at The Bryce Jordan Ticket Center, selected Unimarts, Penn State campus outlets in Altoona, Erie, Hazleton and Reading, or by calling (814) 865-5555, or toll-free at (800) 863-3336. Tickets are priced at \$35, \$25 and \$17.50 for adults; children (12 and under) and senior citizens (60 and over) receive a \$3 discount. Group seating is also available for this event. Call (814) 863-1812 for more information.

Upcoming events

■ Oct. 12: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

■ Oct. 13: NBA Preseason, Atlanta Hawks vs. L.A. Clippers, 7 p.m.; tickets \$19.50/\$15.50/\$9.50.

■ Oct. 19: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

■ Oct. 29: F.W. deKlerk, former South African President, 8 p.m. Admission is free.

■ Nov. 2: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

■ Nov. 9: WYNNONA with special guest Ty Herndon, time and tickets to be announced.

■ Nov. 23: Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at The Bryce Jordan Center, or for more information on any event listed here, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu/>.

more than 100 maps, blueprints, pamphlets and news clippings about Steelton, is now open to the public at Penn State Harrisburg's Center for Pennsylvania Culture Studies. The collection was donated to Penn State Harrisburg in 1994 when Yetter died.

The collection is open to the public approximately 10 hours each week or by appointment. For additional information, contact the center at (717) 948-6094 or the American Studies Office at (717) 948-6021.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, October 10

School of Music, 8 p.m., Recital Hall. Jason Byrnes with a recital on the tuba.

Friday, October 11

School of Music, 2:30 p.m., Recital Hall. U.S. Navy Tuba-Euphonium Quartet.

Sunday, October 13

■ School of Music, 3 and 8 p.m., Recital Hall. Piano Entente: a solo festival by Steven Smith, pianist.

Monday, October 14

■ School of Music, 8 p.m., Recital Hall. Piano Entente: a solo festival by Steven Smith, pianist.

Wednesday, October 16

School of Music, 8 p.m., Recital Hall. Penn State Symphonic Wind Ensemble, Dennis Glocke, conductor.

Thursday, October 17

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch concert by The Penn State Concert Choir.

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Patrick McGrady, "Some Thoughts on the Steidle Collection."

■ Palmer Museum of Art, 6:30 p.m., Palmer Lipson Auditorium. Film: "Solte," sponsored by Hillel.

School of Music, 8 p.m., Eisenhower Auditorium. Symphonic Band, Dennis Glocke, conductor. For tickets, call 863-0255.

Friday, October 18

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Glenn Williamson, curator, on "Contemporary Art From the Pincus Collection." For tickets, call 863-0255.

University Resident Theatre Company, 8 p.m., Playhouse Theatre. "A Cry of Players," through Oct. 26. For tickets, call 863-0255.

School of Music, 8 p.m., Recital Hall. Melissa Hart, mezzo-soprano.

Sunday, October 20

Palmer Museum of Art, 1 p.m., Christoffers Lobby. Sarah Andrews, Gallery Talk on "Portraiture in American Art."

School of Music, 8 p.m., Recital Hall. Susan Boardman, soprano.

SEMINARS

Monday, October 14

Comparative Literature, 12:15-1:20 p.m., 101 Kern. Kristin Naupert.

Agricultural and Biological Engineering, 12:20 p.m., 239 Ag. Engineering, Joseph Millen on "Reducing Sediment Discharge from Sedimentation Basins with Barriers on a Skimmer" and Heather Warren on "Design Outcome Differences in LRFD and ASD Hardwood Glued-Laminated Bridges."

Gravity Center, 2 p.m., 339 Davey Lab. Louis Crane on "Hopl Categories and Combinatorial Topology."

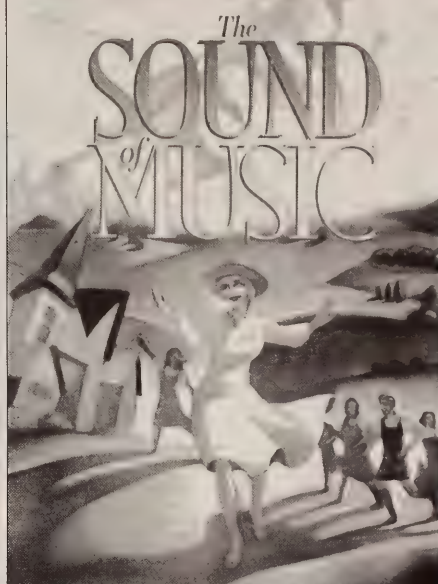
Physics, 3:30 p.m., 339 Davey Lab. Roya Maboudian on "Manipulating Surface Forces in Silicon Micromachining."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Sitaram Lanka on "Heterogeneous Transduction Processing."

■ History, 4 p.m., Eisenhower Chapel, Memorial Union. Larry Berman on "How John F. Kennedy Avoided the Vietnam Quagmire: Deconstructionist Paradise: Conspiracy Theories, Counterfactuals and Historical Inquiry."

Nutrition, 4 p.m., 110 Wartik Lab. Denise M. Ney on "Insulin-Like Growth Factor 1: Responses During Total Parenteral Nutrition."

LIVE ON STAGE! RODGERS & HAMMERSTEIN'S



NEW! THE SOUND OF MUSIC. BY RODGERS & HAMMERSTEIN. CAST BY THE TRAPP FAMILY. STAGED BY MARIA AUGUSTA TRAPP.

On stage

The Sound of Music will be performed at 8 tonight and Friday, Oct. 11, in Eisenhower Auditorium on the University Park Campus. For ticket information, call 814 863-0255.

Philosophy, 4 p.m., 124 Sparks. Cynthia Willett, author, along with panelists Emily Groszholz, Renee Schroff and William Lewis and moderator Ashley Pryor on "Maternal Ethics and Other False Moralities."

Biology, 4 p.m., 8 Mueller Lab. Kathryn G. Miller on "Actin Cytoskeletal Functions During Development and Morphogenesis: Insights Obtained Through Studies of Several Actin-Binding Proteins."

Geosciences, 4 p.m., 112 Walker. Simon Day.

Wednesday, October 16

Women's Studies, 12:10-1:30 p.m., 12 Sparks. Margaret Lyday on "Taking to the Streets: Writing in the Pre-College Classroom."

Gerontology Center, 12:1-1 p.m., 101 H&H East. Subject and speaker to be announced.

Center for Linguistics, 12:15-1:15, 205 Burrows. Lynne Hewitt on "Text Linguistics and the Study of Autism."

Engineering Mechanics, 1:25-2:30 p.m., 129 Waring. Richard Chapery on "Characterization of Nonlinear Time-Dependent Polymers and Polymeric Composites for Durability Analysis."

Thursday, October 17

Ceramics, 11 a.m., 301 Steidle. Richey M. Davis on "Adsorption of Water-Soluble Polymers on Selected Metal Oxides: Development of Steric Stabilizers."

Gravity Center, 11:30 a.m., 339 Davey Lab. Speaker and title to be announced.

Geography, noon, 110 S. Henderson. Lekshman Yapa on "What Causes Poverty: A Postmodern View."

American Studies, 3 p.m., 102 Weaver. Alan Price on "American Philanthropy: From Noblesse Oblige to Corporate Model."

Physics, 3:30 p.m., 101 Osmond Lab. Richard Webb on "Condensed Matter Physics: A Playground for the Quantum Mechanic."

Commission on Lesbian, Gay and Bisexual Equity; the Center for Women Students and the Paul Robeson Cultural Center, 4 p.m., Lipson Auditorium, Palmer Museum. Irene Monroe on "Standin' in the Need of Prayer: Homophobia in the Black Church."

Food Science, 4 p.m., 117 Borland Lab. Pal Lawlor on "Kinetic and Polymorphic Advantages of Polar Lipids During Cocoa Butter Solidification."

■ Spanish, Italian and Portuguese, 7:30 p.m., 111 Chambers. Albert N. Mancini on "Aristotle's Orlando Furioso and the Crisis of 16th Century Italy."

Friday, October 18

Physics, 2:30 p.m., S5 Osmond Lab. Edward R. Grant on "Shape of the Benzene Cation."

■ Geography, 3:30 p.m., 206 Walker. Maryann Frazier on "The African Queen Comes to America: The Impact of Imported Honeybees."

Engineering Mechanics, 3:35-5:30 p.m., 214 Hammond. John Scully on "Corrosion."

Philosophy, 4 p.m., 124 Sparks. Barbara Duden and Ivan Illich on "Philosophy of History."

Monday, October 21

■ Comparative Literature, 12:15-1:20 p.m., 101 Kern. Rosalia Cornejo on "The Lesbian Gays in a Short Story by Spanish Writer Ana Maria Moix."

■ Archaeological Institute, 8 p.m., 101 Kern. Clayton Fant on "The Dialogue of Fresco and Stone in Pompeian Wall Painting."

Undergraduate Student Government, 8 p.m., Schwab Auditorium. Ed Koch on "What it Takes to be Elected in America Today."

EXHIBITS

The HUB Art Gallery

The watercolors of Dorothy Grebos, through Oct. 13.

Shaker-style boxes by Steve Strouse, through Oct. 13.

The HUB Browsing Gallery

■ The work of Shalom Noiman, through Oct. 20.

The HUB Formal Gallery

"Geography of the Unconscious," Nancy Moore, through Oct. 19.

Kern Exhibition Area

"Lewis, Untangling Strings," Robert Vander Voort, through Oct. 15.

The pottery of Ian Stanion, through Oct. 13.

"Happy Feet!," The Pennsylvania Dance Theatre, through Oct. 13.

Palmer Museum

■ "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"Abstraction to Figurative: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5.

Ritouner Jewish Center

"Art on the Move: The paintings of Marjut Kaupar-Katz," through Oct. 16.

Zoller Gallery

"BFA Exhibition," through Oct. 19.

■ Reflects an international perspective

Appointments

Doctor named program director at Hershey Medical Center

Dr. Lawrence I. Sinoway, professor of medicine, was recently named program director of the General Clinical Research Center at The Hershey Medical Center. The GCRCC was established by the National Institutes of Health to create and sustain specialized institutional resources in which clinical investigators can observe and study human physiology as well as study and treat disease with innovative approaches.

Sinoway's responsibilities will include serving as focal point for all clinical research throughout The Hershey Medical Center, including the formation of a Clinical Trials Office, oversight for the Institutional Review Board and the development of clinical epidemiology.

Sinoway came to Hershey in 1984 as assistant professor of medicine in the Division of Cardiology, and as director of the Cardiology Critical Care Unit and of the Cardiology Critical Consult Service. He was named professor in 1993 and in that same year became associate program director of the General Clinical Research Center. In 1994, he became assistant chief of the Division of Cardiology as well as staff cardiologist at the Lebanon VA Hospital.

He completed his internship and residency in internal medicine at the Bronx Municipal Hospital Center and Hospital of the Albert Einstein College of Medicine, Bronx, New York, serving as chief medical resident in internal medicine in 1981-1982. He completed a fellowship in cardiology at the same institutions in 1984. His undergraduate studies were at Johns Hopkins University. He received his M.D. degree from the College of Medicine and Dentistry of New Jersey.

Executive director joins Institute for Study of Business Markets

Ralph A. Oliva, former vice president of worldwide market communications and design for Texas Instruments, has been named the new executive director of The Smeal College's Institute for the Study of Business Markets (ISBM). ISBM has become known internationally as the academic leader in business-to-business marketing research.

Oliva succeeds Irwin Gross, co-founder of ISBM. Gross retired from the University Aug. 31 after 13 years of service. Now a professor emeritus of marketing, he will remain active with the institute and teach in the Penn State executive programs.

Oliva is a 23-year veteran with Texas Instruments, beginning in 1973 as a member of the technical staff in the TI Learning Center. In his most recent position with the firm, he was responsible for the worldwide management of the TI brand, oversight of all of the company's market communications and lead development of design, message and communications strategy.

He headed the team which established the Texas Instruments World Wide Web site, championed an integrated identity program to help chart TI's future, managed internal communications supporting the company's total quality man-

agement efforts and created a new approach to professional development: the TI Virtual University.

Oliva also developed positioning strategies for Texas Instruments, award-winning integrated communications campaigns, TI's first integrated branding strategy and a new satellite approach to market development.

He is the author of 15 books, an expert on the application of technology to education and a consultant and adviser to businesses and educational institutions. He holds master's and doctoral degrees in solid state physics from Rensselaer Polytechnic Institute, and a bachelor's degree in physics from Fordham University.

Health and Human Development adds development assistant

Kimberly Neely of Boalsburg has been named assistant director of development for the College of Health and Human Development. She will be responsible for organizing and implementing fund-raising programs and related activities for the college. She will report to Maggie Crispell, the college's director of development.

A Carlisle native, Neely spent the past three-and-one-half years as vice president for program services and as development specialist for the Easter Seal Society Serving Central Pennsylvania, with offices in Altoona and State College. As vice president for program services, she planned and coordinated pediatric rehabilitation, early childhood education and social support services for Easter Seals. In addition, she was responsible for grant writing, several fund-raising campaigns, outreach and public information for the organization. Neely also has worked for the Keystone Peer Review Organization, a subsidiary of the Pennsylvania Medical Society, as the communications coordinator.

She has a bachelor's degree in English from the University of Delaware and a master's degree in communications from Shippensburg University.

Lawyer joins staff as director of gift planning

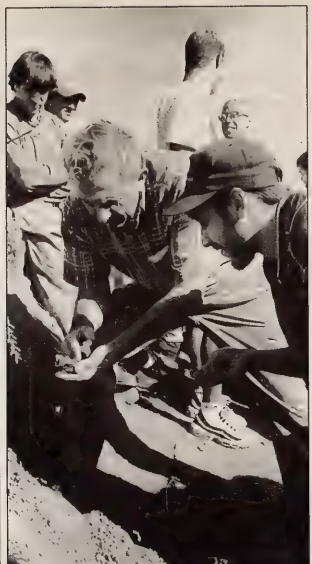
Patricia L. Roenigk has been named director of gift planning for Penn State.

For the University's Division of Development and Alumni Relations, she will administer planned gift programs and assist current and prospective givers by providing information on planned gift options, interpreting tax laws and preparing documentation. She will also assist in establishing endowed funds for long-term support of specific University programs, scholarships and other needs.

Roenigk most recently was a partner with the State College law firm of McQuaid, Blasko, Schwartz, Fleming & Faulkner Inc. Her duties included charitable gift planning and overseeing the formation and representation of professional and business corporations and partnerships.

She also has served as a lecturer for Temple University's School of Medicine and Penn State's Department of Continuing Education, Office of University Development and The Milton S. Eisenhower Medical Center.

She earned her bachelor's degree in pre-law from Penn State in 1980 and a J.D. from Temple University School of Law in 1984. She was admitted to practice before the Supreme Court of Pennsylvania and is a member of the American Bar Association Division of Taxation and the Pennsylvania and Centre County Bar Associations.



Dig this

Edward Klotzko, professor of agronomy, center, took his Soils 416 class on a short field trip recently. The class, studying soil genesis and classification, examined a soil profile in the field beside the lower gardens off Park Avenue on the University Park campus.

Photo: Greg Grieco

BookShelf

A new epic by Charles Hackenberry, assistant professor of English at the Penn State Altoona Campus, has just been published by Harper Collins in paperback. *I Rode with Jesse James* has been nominated for Spur Awards in two categories and for a Perry Award.

M. Lee Upcraft, assistant vice president emeritus for student affairs and affiliate professor emeritus of higher education, and John H. Schuh, associate vice president for student affairs at Wichita State University, are co-authors of *Assessment in Student Affairs: A Guide for Practitioners*, Jossey-Bass Publishers, San Francisco.

The book, meant as a guide for practitioners at all levels, provides a single volume resource on using assessment to develop and improve all facets of student affairs. It includes detailed guidance for student affairs staff on how to assess student needs, student satisfaction, campus environments, campus cultures and student outcomes. It also explains how senior staff can employ assessment finding in strategic planning, policy development and day-to-day decision making.



Ralph A. Oliva

Partings

Professor emeritus earned
all degrees at Penn State

Gordon E. Robinson, professor emeritus of nuclear engineering, has retired after 36 years of teaching and research at Penn State. He may be one of the few faculty here that received his bachelor's, master's and doctoral degrees all at Penn State, in fuel technology, nuclear engineering and mechanical engineering, respectively.



Gordon E. Robinson

Robinson served as

a navigator in the U.S. Navy from 1952 to 1955, after which he worked as an engineer for Babcock and Wilcox for six years. He returned to Penn State in 1960 as a graduate student and a research assistant in nuclear engineering, serving as a reactor operations supervisor from 1960 to 1965, and assistant reactor director from 1963 to 1965.

Robinson taught 13 courses during his career at Penn State, six of which he developed himself, in such areas as nuclear plant systems, thermal and hydraulic core design, safety analysis, heat transfer and thermodynamics. He is responsible for having initiated

reactor safety research in the Department of Nuclear Engineering, and his research interests included boiling heat transfer, liquid metal reactor design and problems related to reactor operation.

He was a charter member of the Department of Energy's Accreditation Board as well as the National Nuclear Accrediting

Board for the Institute of Nuclear Power Operations. He also has written several reactor operations exams for the Nuclear Regulatory Commission and was a consultant to the Operation Licensing Branch of the Commission for more than 20 years.

From 1984 to 1995, Robinson served as the graduate program admissions officer for the College of Engineering's Department of Nuclear Engineering. From 1973 to 1975 and 1990 to 1995, he chaired the Reactor Safeguards Committee.

Robinson will continue to live in State College with his wife, Kay, and their children, Allison and Mike.

Classics professor gains
emeritus status at retirement

Archibald Allen was named professor emeritus of classics upon his retirement from the University on June 30. His association with Penn State spanned 31 years and included departmental administration along with teaching and research.

A native of Ireland, Allen received his B.A. degree (1965) in classics and his Ph.D. degree (1970) in Greek from the Queen's University of Belfast. He joined the Penn State faculty in 1965 as a teacher of Greek and Latin and of classics-in-translation at all levels.

He was awarded the Class of 1993 Award for outstanding Contributions in the Humanities in 1990. As a research scholar, he has published more than 50 papers in European and North American classical journals on

textual problems in Greek and Latin poetry, and is the author of a critical edition of the fragments of the early Greek elegiac poet Mimnermus (Franz Steiner, Stuttgart, 1993). Allen served as head of the Department of Classics from 1976 until 1992.

Allen now lives in New York City where he continues his research and teaching. He has been appointed adjunct professor of classics in the Department of Classics at Brooklyn College of the City University of New York.

His wife, LaRhue, founder and former artistic director of the Pennsylvania Dance Theatre in State College, is executive director of the Trisha Brown Dance Co., based in Manhattan.

Other employees depart service

Nancy L. Erdley, staff assistant V in the College of Arts and Architecture, from March 11, 1982, to Aug. 31.

Lawrence S. Fies, manager of the Ice Pavilion, Intercollegiate Athletics, from July 1, 1980, to Sept. 16.

Janet M. Oswell, staff assistant VI at the Penn State Worthington Scranton Campus, from April 1, 1975, to Sept. 12.

Olympics expert retires;
will continue to lecture, run

John Lucas, professor of exercise and sport science in the College of Health and Human Development, retired in June.

Lucas, who came to Penn State as track coach in 1962 after earning a bachelor's degree in physical education from Boston University, a master's in sport science from UCLA and a Ph.D. in physical education/sport history from the University of Maryland, has served as the Official Olympic Lecturer since 1993. He narrowly missed qualifying for the 1952 U.S. Olympic track team and attended his first Olympic Games for the Turkish team and doctoral student at work on his dissertation. He

resigned his coaching position at Penn State in 1969 to devote more time to teaching and research.

Lucas, who hasn't missed a Summer Games since 1960, has written numerous books and 100 articles on the Games. This year, he was honored with the gold medal of the Olympic Order from the International Olympic Committee for his work. Lucas also holds a master's degree in American history from Penn State.

In retirement, Lucas maintains a busy schedule as Olympic lecturer and runner. He continues to log miles along the winding roads of Happy Valley. He hopes to pass the 90,000-mile lifetime mark in January.

Professor retires after 28
years of University service

Makunda Das, professor of electrical engineering and associate director of the Center for Electronic Materials and Processing, retired after 28 years with Penn State. Das will be remembered among his colleagues in the department and throughout his field for his outstanding research in the areas of field-effect and bipolar transistors, millimeter-wave III-V devices and optoelectronic receiver integration.

Das came to Penn State in 1968 after three years as a principal scientist and group leader at the Hirst Research Center in Middlesex, England. In 1978, he was selected to be a National Science Foundation exchange scientist in India. Das served as an IPA visiting professor at the Wright Patterson Air Force Base Laboratory in Ohio from 1983 to 1984. In the fall of 1987, he went to Gothenburg, Sweden, to serve as a visiting professor to the Chalmers University of Technology's Department of Radio and Space Science.

Das received both his B.S. in physics (1953) and his M.S. in electronics (1955) from Dhaka University in Dhaka, Bangladesh. In 1960, he received his B.S. and Ph.D. in electrical engineering from the University of London's Imperial College.

Das chaired the College of Engineering's Electronics Area Committee from 1975 until he retired. He is a senior member of the Institute for Electrical and Electronic Engineering and was a consultant to the GE Electronics Laboratory in Syracuse, from 1984 to 1993.

He has authored more than 100 refereed publications and contributed to several book chapters. In 1986, he was awarded the Penn State Engineering Society's Outstanding Research Award. Although he is retired, Das is currently conducting research at the Tata Institute in India.

Hazleton professor retires
after 30 years of teaching

After 30 years of outstanding teaching, advising and sharing information, advice and counsel, and maintaining an active research schedule, Anthony V. Galanti, professor of engineering at the Penn State Hazleton Campus, has retired.

A chemical engineer, Galanti's service to the students was marked by his dedication to making college a meaningful and relevant experience. Galanti had spent some years in the private sector as an industrial engineer and throughout his teaching career, he sought to relate theoretical knowledge to practical application.

He has co-authored a number of books and a series of vocational-technical modules on industrial safety, material handling, preventive maintenance and other industrial processes. Results of this own research in chemical engineering and polymer research were published in a number of major technical journals.

Galanti was born and reared in Berwick, Pa., and served that community in a number of educational activities. He served the Penn State Hazleton Campus in countless ways — on the Faculty Senate, and as a member of campus planning and advising committees.

Excellence fund to reward best in teaching, research, service

A \$20,000 Dean's Excellence Fund to reward the best in teaching, research and service has been established in the College of Communications. Highlights of this fund, made possible by a grant from an anonymous friend of the college, include:

- A Teaching Award of \$1,000 to acknowledge innovation/excellence/dedication in teaching for tenured and tenure-track faculty.

- A Research Award of \$1,000 to acknowledge productivity/publication/quality of research for tenured and tenure-track faculty.

- A Service Award of \$1,000 to acknowledge service as it enriches the academic life of students and the well-being of the community.

- A \$2,000 teaching development grant available to a faculty member each summer for the development of new courses, new curricula, learning enhancement and other practices related to the improvement of learning and teaching.

- A faculty research and travel grant fund of \$5,000, awarded on the basis of merit to tenured and tenure-track faculty, above and beyond the usual funds available through the college. Preference will be given to faculty who identify matching funds from an external source.

- A \$500 Staff Service Award to recognize excellence in service by a full-time staff member in the college.

- A \$2,000 Graduate Student Conference Fund to defray travel costs for graduate students invited to present refereed papers at conferences.

- A \$2,000 Undergraduate Students Activity Fund available in the form of small grants to support the college's student chapters of national organizations, student groups and service learning.

- A \$5,500 general fund, to be used at the dean's discretion to support faculty or student activities and programs.

For more information, please contact **Christine Templeton**, director of alumni and public relations, College of Communications, at (814) 865-8801.

Increased recycling efforts save more than \$35,000, aid environment

Thanks to the recycling efforts of Penn State students, faculty and staff, the amount of recyclable waste collected at the University Park Campus — aluminum cans, glass, newspapers and so on — increased from 5,286 tons in 1994 to an all-time high of 5,316 tons in 1995.

That's good news for at least two reasons:

- The increased amount of recyclable material represents a corresponding amount that won't be taking up space in a landfill somewhere; and

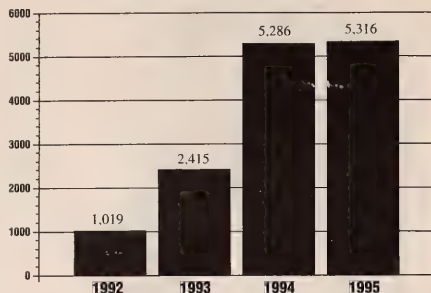
- The numbers translate to a savings of more than \$35,000 in the 1995 "tipping fees" Penn State had to pay for waste handling and disposal.

The savings were realized because Centre County charges a tipping fee of \$75 a ton to handle nonrecyclable garbage, but only \$5 or \$10 a ton — depending how it's sorted — to handle recyclable materials.

Al Matyasovsky, who oversees Penn State's waste management and recycling efforts, said that the University's waste management team is grateful for the strong public support of the program.

Between 1994 and 1995, the total amount of waste collected on campus — nonrecyclable refuse as well as recyclable materials — decreased 96 percent, from 11,744 tons to 11,287 tons.

GROWTH IN RECYCLING EFFORT



Over the past three years — between 1992 and 1995 — the recycling statistics are even more impressive. In 1992, only 1,019 tons of recyclable material were collected on campus. But the number zoomed to 2,415 tons in 1993, to 5,286 tons in 1994 and to 5,316 tons in 1995.

Through another University program — the ongoing recycling program at Beaver Stadium and The

Bryce Jordan Center — money generated from the sale of recycled material goes to the Centre County United Way.

During home football games, 20 recycling stations are located throughout the Beaver Stadium parking lot for glass and plastic bottles and steel and aluminum cans. Last year, United Way received more than \$11,000 from the sale of 34 tons of recyclable material.

Alumni Fellow

Harrisburg honors Ingersoll-Rand executive

Ingersoll-Rand executive **R. Barry Uber** is Penn State Harrisburg's 1996 Alumni Fellow. A 1969 graduate of Penn State Harrisburg with a bachelor's degree in business administration, Uber will receive the honor during a daylong visit to the campus on Oct. 29.

Currently president of Ingersoll-Rand's Construction and Mining Group at the firm's world headquarters in Woodcliff, N.J., Uber first worked for the firm as a sales trainee and co-op student while pursuing his undergraduate degree at Penn State Harrisburg.

Following graduation, his career with Ingersoll-Rand moved rapidly forward. In addition to becoming the second-youngest vice president in the corporation's history, Uber crafted the firm's first joint venture with Russia, led several acquisitions and traveled extensively throughout the world, including 25 trips to Japan.

Uber's professional career is paralleled by his commitment to his community. He is a member of the board of directors of the National Mining Association and a member of the board of trustees for Catholic Community Services of the Archdiocese of Newark.

He has served on boards of directors for the Keystone



R. Barry Uber

Chapter of the Boy Scouts of America, Wilkes University and Cumberland County Historical Society and co-chaired the Somerset County, N.J., United Way campaign.

His current Penn State activities include his commitment to the Dean's Advisory Committee for Manufacturing Quality Group and leadership as a corporate champion for the Penn State recruiting team.

Uber will share his experiences with faculty, staff, students and the community during his visit. Classroom presentations will lead into a 7 p.m. Alumni Fellow Award Ceremony and then Uber's lecture

in the Olmsted Auditorium.

The event is free to the public. For information, call (717) 948-6272.

The Alumni Fellow Award is the most prestigious honor given by the Penn State Alumni Association. The University's Board of Trustees has designated the title as permanent and lifelong. The Alumni Fellows program, which began in 1973, is designed to invite prominent and outstanding alumni to return to the University to offer their expertise in informal contacts with the students, faculty and administrators.

Good feedback key to resolving workplace problems

By PAUL BLAUM
Public Information

Lack of feedback, not poor training, is the chief bane of the American workplace.

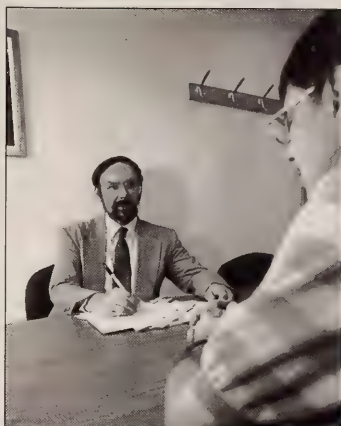
"Many workplace problems have nothing to do with poor training," William J. Rothwell, associate professor of education, said. "When a worker violates a dress code or consistently misses work, that's a problem for management, not the human resources director."

"Often, if there is a training problem, it is with managers who are not trained to deal with workers who know their jobs but are still underperforming," Rothwell said.

Rothwell is the author of "Beyond Training And Development: State-Of-The-Art Strategies for Enhancing Human Performance," published by the American Management Association.

The researcher surveyed 350 randomly selected members of the American Society for Training and Development, presenting each with a list of 20 possible causes of human performance problems. Participants were asked to rate how frequently they encountered those causes and how significant those causes have proved to be.

"The most commonly cited cause of worker performance problems was lack of ability, tools or motivation but lack of feedback on consequences," Rothwell said. "The second most significant cause of performance problems was lack of timely feedback on perfor-



William J. Rothwell's research has documented the importance of managers giving clear, unambiguous feedback to employees.

Photo: Greg Grieco

mance; the third, lack of assigned responsibility."

On the other hand, the three most effective solutions identified by survey respondents were providing workers with clear, unambiguous feedback about how well they are doing; giving workers the information they need to function competently; and improving timely information during performance.

"Many managers never get proper training themselves as managers," Rothwell said. "A misguided premise exists that, because

someone does their job well, that person can do well as a supervisor. But that often is not the case. Supervising or managing involves a whole different set of skills other than knowing the job."

Many managers and supervisors dislike confronting workers and fail to give workers the necessary feedback that keeps a problem from getting worse.

Instead of discussing the problem directly with employees, managers pass that duty on the trainer or human resources person, not realizing that the trainer is

not a workplace traffic cop, Rothwell said.

For instance, if workers are not conforming to the company dress code, the problem might be a lack of communication that can be handled at the outset by providing each new employee with a brochure explaining company procedures and expectations.

On the other hand, workers may know the dress code but not comply with it because they don't want to or because dressing in a taboo fashion draws favorable attention from co-workers.

"There is no point in instituting a company training program aimed at improving bad work habits if those habits are not actually related to job skills," Rothwell, a faculty member in the College of Education, said.

Managers who think in those terms are throwing the wrong solution at the problem. The solution is for the manager, not the trainer, to give individual feedback to the small minority of workers guilty of violating company policy. Instigmating the whole labor force would be wasteful and perhaps even counterproductive.

Most organizations could improve dramatically in the area of training, Rothwell said.

"But managers have to know the difference between which worker performance problems are fixable by training and which are not," Rothwell said. "Training only fixes problems that come from lack of knowledge."



Wet, mild September may dim fall foliage

The overly cloudy, wet and mild weather experienced during September may delay leaf change in Pennsylvania and dim the brightness of the colors, according to a Penn State forestry expert.

"I have serious concerns about the quality and brightness of the fall foliage this year," Marc Abrams, associate professor of forest ecology and physiology, said. "The color change may not only be later than usual, but not as bright."

Everything depends on the weather, but if the weather remains wetter and warmer than usual, then the leaf turn will be affected.

According to Abrams, a dry and cool, but above-freezing, September makes for a bright leaf change in the middle of October.

"If the weather turns sunny, cooler and drier over the next two to three weeks, we could still have a bright fall," Abrams said.

Despite that possibility, the College of Agricultural Sciences faculty member is not optimistic about this year's autumn color. He noted that last year, because of the severe drought and the mild fall temperatures across Pennsylvania, leaves of many trees turned from green to brown.

"If the weather continues as it has been, the reds will be less red, the oranges less fiery and the yellows less bright," Abrams said.

"The milder than usual weather will prolong the growing season and the color change will be later than usual, as well."

In general, the peak of leaf change in Pennsylvania is in mid-October, shifting a few days or a week depending on location.

Study outlines proper use of asthma drug



The major study of mild asthma reported in the *New England Journal of Medicine* ends a five-year debate about appropriate use of medication for treating mild asthma.

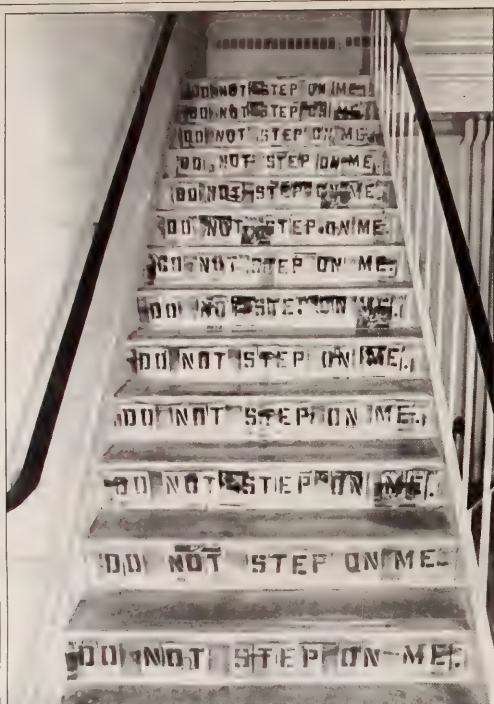
The results show that the commonly prescribed inhaled drug, albuterol,

should be used only on an as-needed basis for patients with mild asthma. Regularly scheduled use of albuterol is not risky, but neither is it necessary, according to co-investigator Dr. Clifford W. Zwillich, professor and chief of pulmonary and critical care at The Hershey Medical Center.

Puffing on the inhalant only during an attack of coughing or wheezing is sufficient for mild asthmatics, according to Zwillich. Data collection

and statistical analysis for the multicenter study was designed and managed by Vernon M. Chinchilli of the Center for Biostatistics and Epidemiology.

Many of the more than 7 million Americans with mild asthma take albuterol as a regular medication. The inhalant is a beta-agonist that relaxes smooth muscles of the airways. It is sold under the brand names of Ventolin and Proventil.



Unique recycling technique

A stairway in the Visual Arts Building on the University Park Campus is transformed into site art. Students in Associate Professor Sally McCorkle's installation art class were given locations and had one and a half weeks to create their work. This stairway was designed by student Kelly DeKraane using past issues of *Intercom* to cover the steps before stenciling the lettering.

Photo: Andrea Hurley

For the Record

■ In the Sept. 26 issue of *Intercom*, the telephone listing for the Employee Assistance Program's 24-hour service should have read (800) 858-2778.

■ The National Extension Association of Family and Consumer Services Distinguished Service Award, received by Jan Scholl, associate professor of agricultural and extension education, recognizes outstanding program work. The purpose of the award was listed incorrectly in a Penn State item on page 10 of the Sept 19 issue of *Intercom*.

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University, others join in electronic data exchange pact

Penn State Harrisburg, Millersville University and Harrisburg Area Community College have forged an electronic data exchange pact — one of the first for the Commonwealth.

In a technological departure from tradition, the three area institutions have signed a "trading partner agreement" which provides for the electronic interchange of information and permits them to exchange student transcripts electronically rather than as a mailed, printed document.

"This means that we're going to work together and will accept the electronic transmission as an official document," said Thomas Streveler, director of enrollment services at Penn State Harrisburg. "This will save a lot of time because sometimes it takes two to three weeks to send a transcript. With this it's immediate in a sense."

The system will be a valuable tool for the dual admission program between Penn State Harrisburg and HACC. More than 30 percent of Penn State Harrisburg's incoming junior class this semester transferred from HACC.

The three colleges have been working on implementing this system since last October.

The computerized transmission of records is common practice at institutions such as banks, insurance companies and hospitals. However, "educational institutions have been slow to do this," Streveler said. "I think we were waiting for the technology to evolve."

Currently only two institutions in Pennsylvania are involved in the electronic exchange of records, according to Streveler. The Community College of Philadelphia does a one-way transmission to Temple University.

"Some states have mandated electronic exchange," Streveler said. "The public universities in Florida all have it and some universities in California and Oregon do also."

The cost to set up the electronic data exchange system is minimal because the University Park Campus purchased the necessary hardware and software some time ago.

Penn State will also save money by using a server in Texas for electronic exchange. "The University of Texas established a computer for this and they are offering free use of the computer to send records," Streveler said.

"There are about 80 institutions using it. I think they're trying to establish themselves as one of the major, central locations."

Students do not have to worry about security issues with this system. "We have an encryption device in that transmission, so that if a hacker tapped in the message would be scrambled," Streveler said.

"We've come a long way," Streveler said. "We might be transmitting transcripts by next semester. That's our goal."

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Volume 26, Number 9

Gift valued at \$20.9 million given to Penn College

An A-6E Intruder aircraft has been awarded to Pennsylvania College of Technology by the federal government. Valued at nearly \$20.9 million, the Navy aircraft and its accompanying training aids is the single largest gift received in the college's history.

The A-6E will be used for instruction in Penn College's aviation and avionics technologies programs, housed at the college's Kathryn Wentzel Lumley Aviation Center at the Williamsport-Lycoming County Airport in Montoursville.

Formerly used by the U.S. Navy, the aircraft was donated to the college

See "Penn College" on page 3

University will honor those still "Living the Dream"

As part of the University's annual celebration of Martin Luther King Jr. Day, the Forum on Black Affairs will hold a dinner to honor those who are "Living the Dream" as envisioned by King. The dinner is scheduled for Friday, Jan. 17, at The Penn State Scenic Presidents Hall. Guests will begin seating at 6:30 p.m. with dinner served promptly at 7 p.m.

The community is invited to reflect on and celebrate seven of King's principles and submit the names of individuals, organizations and programs that they feel exemplify these principles.

Respondents should select one principle; describe the contribution of

See "MLK" on page 3



Intricate work

Diana Mastasousa, a doctoral student in the Department of Psychology, teaches polymer clay bead making at the Hetzel Union Building Center for Arts and Crafts on the University Park Campus. The center will offer another round of six-week sessions beginning Oct. 21 in pottery, print making, jewelry making, drawing and stained glass. Anyone interested in signing up, should call the center at 863-0611.

Photo: Kristie Guidner

Higher education facing more change Michigan's former president discusses pressing issues at forum

By ANNEMARIE MOUNTZ
Public Information

The university, one of civilization's most enduring institutions, has changed considerably over time. The needs of today's society and a tightening of governmental purse strings have forced public research universities such as Penn State to change once again.

Where we are headed is not yet clear, but a clue may be found in where we have been, according to James J. Duderstadt, president emeritus of the University of Michigan.

"In a sense, rather than move ahead into a new paradigm, what we may be doing is finding ourselves moving back to an earlier paradigm, that of the land-grant university very much tied to society, serving that society and

meeting its here-and-now needs. That may be the message that society is giving us," Duderstadt said at the inaugural Penn State National Issues Forum, held on the University Park Campus Oct. 8 and simulcast on WPSU radio.

"There's a tidal wave of criticism that affects higher education, in part because of our importance to society but in part too because the traditional allies we've had — the press, public officials, people in the business world — are now some of our most strident critics," Duderstadt said.

He said that while those allies are deeply concerned about higher education, they are frequently not well informed and tend to call for remedies that are not in the best interests of the universities or society as a whole.

One such public call is for the elimination of tenure.

See "Change" on page 3

Inside



The ways we work

To find out what action various units across the University are taking in response to the 1996 Faculty/Staff Survey, which revealed several things about the way we think about work, please see the special section on pages 7-10.



TV stereotype doesn't fit

Your image of a single father could be shattered by research done by Daniel J. Eggebeen, associate professor of human development and family studies (left). For the full story, please see page 15

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Alumni Association honors Alumni Fellows

Physician is president of National Kidney Foundation

Theodore Steinman, a physician at Beth Israel Hospital and Brigham and Women's Hospital in Boston and a clinical professor of medicine at Harvard Medical School, has been named a recipient of the Penn State Alumni Association's 1996 Alumni Fellow Award.

Steinman received a bachelor of science degree from Penn State in 1960 and a medical doctorate in 1964 from the Georgetown University School of Medicine. He completed his senior residency in medicine at Beth Israel Hospital in Boston, Mass., where he is director of the dialysis unit, medical coordinator of the kidney transplantation service and co-director of the metabolic stone unit.

Steinman has research interests in many areas relating to kidney functioning in adults. He holds various committee positions that advance research in these and other areas and has received many awards.

Steinman is the founder and organizer of the Boston Inter-hospital Renal Rounds. He serves as a research review consultant with the Department of Veterans Affairs and as chairman of the agency's Data Monitoring Board. He also is president of the National Kidney Foundation (Region I), past president of the Renal Physicians Association, vice-chairman of the Polycystic Kidney Research Foundation, member of the Life Options Rehabilitation Advisory Council and member of the oversight committee of the Joint ASN-NKF-RPA Project on Dialysis Outcome Quality Initiative. In addition, he serves on various editorial boards of scientific journals.



Theodore Steinman

The Alumni Fellow Award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

Two cited for achievement by the College of Communications

The College of Communications will welcome its 1996 Alumni Fellows for a week of classes and events from Oct. 21-25. **Robert K. Zimmerman** and **William A. Jaffe**, both of State College, will be honored by the Penn State Alumni Association on Thursday, Oct. 24, at a special ceremony at the Nittany Lion Inn.

Zimmerman, who recently retired as president and major stockholder of TeleMedia Broadcasting, began his career after graduation as a radio-television announcer in Johnstown, Pa., in 1958. After four years in Johnstown, he moved to Washington, D.C., where over the next 10 years he worked as an announcer, a broadcast time salesman, a sales manager and a general manager. In 1972, Zimmerman returned to central Pennsylvania to purchase radio stations WRSC-AM and WQWK-FM. These purchases were the start of a chain that reached as many as 13 stations at one time. Zimmerman also started a television commercial production division, a cable advertising sales department and a cable video text division.

Past president of the Pennsylvania Association of Broadcasters, Zimmerman served 16 years on the association's board of directors, and in 1991, he received the PAB's Lifetime Achievement Award. Currently, he is the president of Centre Stage, a member of the State College Kiwanis Club and a member of the Mt. Nittany Conservancy.

Jaffe, in addition to being a 1960 Penn



Robert K. Zimmerman



William A. Jaffe

State graduate, holds an M.S. in management from the University of Illinois. He is the principal of The Jaffe Group, a recently established human resources consulting firm. Jaffe has more than 27 years of human resource consulting experience, having served as a compensation and human resource practice leader for Alexander & Alexander Consulting Group's Mid-Atlantic Region and as a consultant for 21 years with Towers Perrin.

Jaffe has worked with both the private and public sector, for-profit and not-for-profit, and large and small organizations in a number of industries. Included among the clients he has served are the American Nurses Association, British Biotechnology, National Rural Telecommunications, Sovereign Bank, the Travel Industry Association and VA United Methodist Homes. From 1991 to 1995, Jaffe was an adjunct associate professor of management science for George Washington University's School of Business and Public Management.

Penn Staters

Namenjeet Ahluwalia, assistant professor of nutrition, and **James Strauss**, instructor of anatomy and physiology, have been selected to participate as Project Kaleidoscope's (PKAL) Faculty for the 21st Century — Class of 1996. Project Kaleidoscope works to build networks of individuals and institutions across the country with a common commitment to transform undergraduate science, mathematics, engineering and technology education. Those named to the faculty for the 21st century network are faculty who, at an early career stage, are emerging as leaders within their local community and are recognized as having the potential for national leadership into the next century.

Richard Devon, associate professor of engineering, **Sohail Nawar**, assistant professor of engineering at the Penn State Altoona Campus, **Mary Ann Lyman-Hager**, coordinator of instructional computing, and **Ron Land**, associate professor of engineering at the Penn State New Kensington Campus, served as invited professors of the Institut Universitaire Technologie in Bethune, France.

Martha T. Halsey, professor emerita of Spanish, presented an invited paper at the "International Semi-

nar on Theater, Society and Politics in 20th-Century Spain," organized by the Federico García Lorca Foundation in Madrid. She spoke on "Historical Theater and the Dialectical Vision: Some Plays of the Post-Civil War Era."

She also presented an invited lecture at the University of Oviedo, Spain, on the same subject. Halsey was recently elected an honorary associate of the Hispanic Society of America, with headquarters in New York City.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and Materials Research Laboratory, gave two invited talks at the University of Bonn, Germany, on "Microwave-hydrothermal Processing of Ceramic and Metal Powders" and "Synthesis and Characterization of Porous Silica and Aluminosilicate Gels." He also gave an invited talk on "Porous Molted Ceramics" at the German Aerospace Research Establishment in Koln, Germany.

Budugur Lakshminarayana, Evan Pugh professor of aerospace engineering and director of the Center for Gas Turbine and Power, received the 1996 American Society of Mechanical Engineers

(ASME) Fluids Engineering Award "for major contributions in the area of fluid machinery engineering."

"Spike Heels," a play directed by **Cary Libkin**, associate professor of theatre arts in the School of Theatre Arts, was voted best comedy this year in the Austin Critics' Awards.

Philip Mosley, associate professor of English, communications and comparative literature at the Penn State Worthington Scranton Campus, presented a paper on "Hainaut Surrealism and the Construction of Wallon Identity" at the International Society for the Study of European Ideas conference in Utrecht, Holland.

Jogender Singh, senior research associate with the Applied Research Laboratory and an associate professor of engineering science and mechanics, has been named a Fellow of the Institute of Metals, London. Singh was selected in recognition of his distinguished contribution in the field of laser materials processing.

Singh has actively worked in the area of laser processing and materials for more than 10 years.

Change

continued from page 1

Duderstadt said that while tenure may no longer be desirable in all areas, there is still a strong need for it in the core academic disciplines.

"I think that the freedom of inquiry, the academic freedom — which is the real intent of tenure — will continue to be valuable," he said. "However, many of our professional schools would just as soon be relieved of the apparatus that goes along with tenure, particularly those that require the use of practitioners," he said. "I think we'll see (an end to tenure) first in our medical schools. I think we'll also see it in the visual and performing arts."

Roe Hiebert, director of public affairs for the National Association of State Universities and Land Grant Colleges, agrees.

"Dr. Duderstadt assessed the problem very accurately because questions are coming up more and more about the validity of tenure. Universities are beginning to look at tenure in new and different ways that they didn't see 20 years ago," Hiebert said.

Teaching methods also are being re-examined. Duderstadt envisions faculty of the 21st century as learning consultants or coaches.

"Today we're faced with the great challenge of educating the digital age, the plug-and-play generation," Duderstadt said. "This generation is unaccustomed, and unwilling, to learn sequentially — to read the manual. They like to plunge in and learn through participation and experimentation. Our challenge is to reinvent our model to adapt to them."

Hiebert sees demographics as inspiring change. "There is not a traditional student population anymore," she said. "Student ages range from 18 to 80. Students can be full time or part time, live close to their campus or hundreds of miles away. It's beginning to shake the traditional public university environment and make us look carefully about how we should educate lifelong learners."

The University of Michigan has begun the journey into this brave, new world by opening a multi-media center. The center, a merger of the schools of art, music, architecture and engineering, through information technology, includes 1,200 computer work stations and virtual reality labs, and is open 24 hours a day, seven days a week.

"It's the university for the 21st century, a place



His perspective

James J. Duderstadt, president emeritus of the University of Michigan, gives the inaugural talk of the newly launched Penn State National Issues Forum to a full house on Oct. 8 at the Nittany Lion Inn. Duderstadt discussed the future of American higher education.

Photo: Greg Grieco

where students come together and through interaction are trying to create what's never existed," Duderstadt said.

The challenge to keep up with change is a difficult one, given recent declines in government funding.

"There has been a shift from the support of institutions like this from public tax support to tuition and user fees," Duderstadt said. "This has undermined a commitment made by this nation for almost a century that those who benefit and those who pay for higher education should be part of the same collective 'we,' that is our broader society."

David Merkwitz, director of public affairs for the American Council on Education, sees an increase in user fees as a means of offsetting the lack of government financial support.

"Today we're faced with the great challenge of educating the digital age, the plug-and-play generation unaccustomed, and unwilling, to learn sequentially — to read the manual. Our challenge is to reinvent our model to adapt to them."

James J. Duderstadt
president emeritus
University of Michigan

MLK

continued from page 1

an individual, organization or program; and explain why they feel it ties in with the principle.

Recommendations should be sent to **Grace Hampton** at 216 Wigner Building, University Park, Pa. 16802 by Monday, Dec. 9.

The Forum on Black Affairs will review the entries and recognize some of the individuals at the dinner.

Following is a brief summary of the seven principles taken from

King's writings. They reflect the driving forces behind his actions:

1. **Persistence.** Human progress comes from the persistent work of people.
2. **Selflessness.** Doing for others is the essence of creative altruism.
3. **Love.** Hatred darkens life. Love illuminates it.
4. **Risk.** There is no freedom without sacrifice and risk.
5. **Conviction.** An education without morals is of little value.
6. **Collaboration.** In a multiracial society, no group can make it alone.
7. **Faith.** Faith in God leads to human happiness.

Penn College

continued from page 1

by the Federal Surplus Property Program and allocated by the Pennsylvania Department of General Services, Bureau of Supplies and Surplus Operations.

According to Colin W. Williamson, dean for Penn College's School of Natural Resources Management/Transportation Technology, this particular A-6E was last used by the Navy for systems tests and evaluations and stationed at Patuxent River Naval Air Station in Maryland. The aircraft is capable of flying at approximately 550 knots (600 miles per hour), and up to 45,000 feet. The U.S. Navy's A-6 program has been in operation since 1963. Plans are to retire the A-6E by the end of 1997.

At the college, the A-6E will provide the aviation maintenance program with a unique platform of systems common to large transport aircraft. In addition, Penn College has been given A-6E systems training aids and fully functional simulators. Those include a weapons release system, digital computer system, cockpit simulator and hydraulic simulator.

LECTURES

Free distance ed seminar offered for faculty and staff

The Department of Continuing and Distance Education will sponsor a free daylong seminar, "Breaking the Barriers: Distance Delivery Models and Methods," on Wednesday, Oct. 23, at The Penn State Scanton.

"Breaking the Barriers" will provide a close-up look at some of the innovative delivery models and methods being used to extend Penn State's academic resources to the world.

Timothy D. Wells, associate professor of information technology, Rochester Institute of Technology, is the keynote speaker. His presentation, "The Virtual Professor," will address his distance education model for conducting graduate-level courses using first-class conferencing software and the World Wide Web.

Concurrent session presents

include: **Brian Weiner**, associate professor of physics; **Bill Rose**, instructional designer, Department of Distance Education; **John Ousey**, associate professor of environmental science, Penn State Delaware County Campus; **Beth Egan**, instructor in dietetics; **Fran Osseo-Asare**, instructional publications designer; **John Coyle**, professor of business logistics; **Bridget Behe**, associate professor of horticulture, Auburn University; **Anita Colyer**, program coordinator, Department of Distance Education; **Alan Stuart**, associate professor of acoustics; and **Ann Taylor**, instructional designer, Department of Distance Education.

This event is free to Penn State faculty and staff, but space is limited and preregistration is required. To register, call (800) 778-8632.

Executives, scholars to ponder management initiatives

Business executives and scholars will gather at the University Park Campus Oct. 21-22 to begin the quest for greater relevance in management research. Fifty select participants from leading business schools and corporations are expected to attend to explore the question, "Beyond TQM: What's Next for Business and Academia?" The session, to be held at The Penn State Scanton, is co-sponsored by The Smeal College of Business Administration, the college's Institute for the Study of Organizational Effectiveness, and the IBM Total Quality Grant.

The small-group format, including both executives and academicians, will provide an unusual opportunity for high-level interaction, according to conference organizers.

MIT's Thomas L. Magnanti, the George Eastman professor of management science and professor of electrical engineering and computer science, will deliver a keynote address on "The Role of Business Research for the Future." **Stephen B. Schwartz**, retired senior vice president at IBM Corp., will speak on "What's Next? The Foundation." **Joseph Fine**, president of Strategic Horizons, will discuss "Beyond TQM: Mass Customization Beyond the Service Economy;" and **David Feight**, vice president and director of business development, Armstrong World Industries, and **Daniel Chisholm**, plant manager, Delphi Saginaw-Delphi Automotive Systems, will address "Creating the Future: The Impact for Business and Academia."

Authors to read from their works

Poet **Paul Zimmer**, editor at the University of Iowa Press, will read his poems at 7:30 p.m. Thursday, Oct. 24, in 112 Walker Building on the University Park Campus. Zimmer's new book, *Crossing to Sunlight*, was published by the University of Georgia Press.

Nonfiction writer and naturalist **David Quammen**, author of the best-selling *Song of the Dodo*, will read from his work at 7:30 p.m. Wednesday, Nov. 13, in 112 Walker Building. Novelist and short story writer **Rita Ciresi** will read from her new novel, *Blue Ital-*

ian, published this fall by The Ecco Press. The reading will take place at 7:30 p.m. Monday, Nov. 18, in the HUB Gallery Lounge. Ciresi is a 1986 graduate of the Penn State MFA program. She won the Flannery O'Connor Prize for her collection of stories, *Mother Rock*.

The series is sponsored by the Department of English, the Institute for the Arts and Humanistic Studies, the Research and Graduate Studies Office of the College of the Liberal Arts and the Mary Rolling Fund.

Scanton conference to look at gender equity

Adults who devote time to teaching and leading girls can learn new ways to nurture the girl-adult partnership by attending "Gender Equity: Inclusive Perspectives," to be held Nov. 9 at The Penn State Scanton.

Research indicates that girls and women are treated differently than boys and men. They are called on less frequently and are praised for their appearance, rather than for the quality of their work. Even an all-girl environment or the presence of a female role model does not always ensure gender equity.

At the Gender Equity conference, participants can become more aware of gender-biased behavior and communication traps. The keynote address, "Empowering Ourselves and Others," will be given by **Sabrina Chapman**, director, Penn State Center for Women Studies.

Conference participants will be able to choose from among several sessions

on topics such as gender issues in the classroom, the media, self-esteem and cross-cultural interactions. These sessions will be followed by gender equity model training overview sessions, which will offer practical techniques and a call-to-action wrap-up activity. This conference is a continuing and distance education service of the College of Education in cooperation with the Hemlock Girl Scout Council and the State College branch of the American Association of University Women (AAUW).

For more information about program content, please contact **Chris Schultz**, conference planner, by phone: (814) 863-5130; or e-mail: ConferenceInfo@cde.psu.edu. The deadline to register for the conference is Oct. 18. For registration information, call (800) 778-8632 or visit the Web site at: <http://www.cde.psu.edu/C&I/GenderEquity/>

Lecture series to focus on coal

The seventh annual Peter H. Given Lectureship in Coal Science will be given by **Donald F. McMillen**, senior staff scientist at SRI International Inc. He will visit the Department of Materials Science and Engineering on the University Park Campus on Nov. 4-8.

During his visit McMillen will present a series of three lectures, which include:

- "Comparing H-Transfer in Coal Liquefaction, Heavy-Oil Upgrading and Polymer Degradation as a Basis for Improving Coal Processing Operations" at 10 a.m. on Nov. 5;
- "Field Ionization Mass Spectrometry of Coals and Coal Pyrolysis and Liquefaction Products" at 1 p.m. on Nov. 6; and
- "Retrograde Reactions of Oxygen Functions in Coal Structures" at 10 a.m. on Nov. 7.

All lectures will take place in Room

C-213 in the Coal Utilization Laboratory on Bigler Road. The public is invited. Morning seminars will be preceded by refreshments at 9:45 a.m.

McMillen has spent his career with SRI International, where he has worked to improve the understanding of coal liquefaction and pyrolysis as well as heavy oil upgrading. He also has worked on the mechanisms of thermal-induced and stress-induced decomposition of explosives and propellants. For his contributions to the chemistry of fossil fuels he was honored with the H.H. Storch Award of the American Chemical Society.

This lecture series honors the memory of **Peter H. Given**, a Penn State faculty member from 1961 to 1985, whose research into the geochemistry, molecular structure and organic reactions of coal gained international recognition.

Thomas Hardy is subject of Oct. 24 talk

Michael Millgate, professor of English at the University of Toronto and the biographer of Thomas Hardy, will speak on the topic of "Thomas Hardy's Max Gate Library: An Exercise in Reconstruction" at 8 p.m. Thursday, Oct. 24, in 101 Kern Building on the University Park Campus. The lecture is sponsored by the Dorothy Foehr Hueb Club for Special Collections in the University Libraries.

Millgate is the author of more than a dozen works on Thomas Hardy and William Faulkner. Most recently, he edited *The Letters of Emma and Florence Hardy* (Hardy's two wives) for the Oxford University Press. Among many volumes on Hardy, he has also

co-edited *The Collected Letters in five volumes* (Oxford, 1978-1988) and written a critical biography, *Thomas Hardy, His Career as a Novelist* (Random House, 1971).

The lecture will in part honor the gift of a photographic essay on the settings of the seven major Hardy novels by the late Leslie Greenhill, director emerita of instructional services at Penn State and a distinguished photographer. Greenhill had been a long-time correspondent and friend of Millgate. The 75 photographs that make up the album are now part of the photo archives of the Rare Books Room, Pattee Library.

More Lectures

Pompeian art topic of Oct. 21 talk

The ancient Roman city of Pompeii is famous for its sad fate when Mount Vesuvius erupted in the second century, and for the elegance of the wall paintings and architecture which have been uncovered by archaeologists.

J. Clayton Fant, who teaches classics and history at the University of Akron, Ohio, will discuss "The Dialogue of Fresco and Stone in Pompeian Wall Painting" at 8 p.m. Monday, Oct. 21, in 101 Kern Building on the University Park Campus. Fant received his Ph.D. from the University of Michigan. He has participated in excavations at Ostia and Pompeii in Italy as well as at numerous sites in Turkey and has published many articles on ancient Roman marble.

The talk, which is free to the public, is sponsored by the Central Pennsylvania Society of the Archaeological Institute of America along with Penn State's Institute for the Arts and Humanistic Studies, the College of the Liberal Arts and the Department of Art History.

Brown-bag seminar Oct. 23

The Center For Russian and East European Languages presents a brown-bag luncheon seminar at noon Wednesday, Oct. 23, in 124 Sparks Building on the University Park Campus. George Enteen, professor emeritus of history, will speak on "Impressions of Russia: An Update." The seminar is free to the public.

Upcoming seminars include:

Nov. 7: Irene Hurd, "Doing Business in Russia: A Woman's Perspective"
Nov. 20: Bogdan Stefanescu, "The Irony Behind Romania's Identity: Metaphors of Insecurity in a Besieged Culture."

Bell curve examined Oct. 23

After becoming a *New York Times* bestseller, *The Bell Curve* drew a great deal of international attention. A Penn State Harrisburg Eastgate Center presentation at noon, Wednesday, Oct. 23, will examine the publication and its implications.

The featured presenters, Joe Kincheloe and Shirley Steinberg, editors of *Morality Lines - The Bell Curve Examined*, will reveal allegedly inaccurate and skewed data of the book, "uncovering an angry racist and classist message." The presenters will discuss the implications of the message and what accounts for its positive reception.

The presentation is free to the public, but registration is necessary to ensure adequate seating. For information or registration, call (717) 722-3590. The Penn State Harrisburg Eastgate Center is located at 1010 N. Seventh St. in Harrisburg.

Artist to discuss his work Oct. 29

California artist Roland Reiss, director of the Claremont Graduate School Art Program, will visit Penn State Oct. 26-29 as a guest of the School of Visual Arts.

Reiss will present a public lecture on his work at 3 p.m. Tuesday, Oct. 29, in the Palmer Lipson Auditorium of the Palmer Museum of Art. He will meet with groups of faculty and students for critiques, and will discuss 20th-century art and culture on the evening of Monday, Oct. 28, with students.

Reiss has exhibited his work at hundreds of venues across the United States and internationally. He is the recipient of four National Endowment for the Arts grants and more than 40 prizes and awards.

Reiss' appeal will be to sculptors, installation artists and painters, as well as to architects and theatre set designers, particularly because of his "morality plays" (works from the '80s and '90s).

For more information call Micaela Amato, area head painting and drawing in the School of Visual Arts, at (814) 865-0444.

Data Center to hold noon lectures

For the first time, the Capitol Office of the State Data Center is hosting two noon lectures at the Penn State Lancaster Center.

On Oct. 31, Robert Garraty, senior project associate in the Penn State Harrisburg Institute of State and Regional Affairs and the former director of the Pennsylvania Millie Council, will address "Network Models of Labor-Management Cooperation."

In his presentation, Garraty will review past and present efforts to bring some of the innovative programs unions have initiated to assist their companies in the competitive marketplace.

The second Lancaster Center presentation on Nov. 21 will feature Robert Bresler, Penn State Harrisburg professor of public policy, examining the current debate on affirmative action and its probable impact on policy.

Both presentations are free to the public. For reservations or information, contact the State Data Center at Penn State Harrisburg, (717) 948-6464.

Obituaries

Professor emeritus, 81 has retired in 1977

Leslie P. Greenhill, professor emeritus of education and director emeritus of Instructional Services, died Sept. 11 at Centre Community Hospital. He was 81.

Greenhill, who served the University in various capacities since 1948, retired from Penn State in 1977. From 1948 to 1954, Greenhill was a visiting Fellow, research coordinator and assistant director of the Instructional Film Research Program. He went on to serve as associate director of the program (1955-58), which was renamed the Division of Instructional Services. Named director in 1963, Greenhill oversaw examination services, instructional television services, motion picture, graphics and still photography services, and instructional research and course development services. Just two years later, Greenhill was appointed assistant to the president for academic affairs.

In 1967, he went on to serve as assistant vice president for resident instruction and director, and, in 1970, was named assistant vice president for academic services while still retaining the title of director of Instructional Services (1970-77).

Greenhill had served as a consultant to a wide range of organizations including the National Council of Churches, the U.S. Office of Education on New Media Programs and the National Academy of Engineering's Commission on Engineering Education. During his lifetime, he wrote 125 publications dealing with applications of sound motion pictures and television and other instructional methods and media to higher education. Greenhill also held office in numerous professional organizations and societies.

Memorial contributions may be made to the Leslie P. Greenhill Photography Award Fund, Penn State College of Arts and Architecture, 114 Arts Building, University Park, Pa. 16802.

Former Ordinance Research Laboratory employee, dies

Jerome "Jack" Kapitano, a retired employee from the former Ordinance Research Laboratory, (now the Applied Research Lab on the University Park Campus), died Aug. 28 at his residence in State College. Kapitano was a member of Phi Mu Alpha Sinfonia, a professional music fraternity, and Phi Delta Kappa, an educational honorary society. He was a past president of The University Club, from which he retired in January 1996 as a board member emeritus. In addition to his work for the University, Kapitano also was employed at the Naval Torpedo Station in Newport, R.I., and HRB-Singer Inc. of State College. He was director of vocational training at the State Correctional Institution at Rockview.

Memorial contributions may be made to a scholarship which will benefit students in engineering, education and music: The Jerome J. Kapitano Memorial Scholarship, The Pennsylvania State University, 7 Old Main, University Park, Pa. 16802.

Other deaths

Stuart H. Chamberlain, assistant professor of mechanical engineering in the College of Engineering, from Oct. 15, 1945, until his retirement July 1, 1972; died Sept. 18 at the age of 90.

William E. Dreibeis, former employee of the Department of Agronomy in the College of Agricultural Sciences, died Sept. 23 at the age of 94.

Dreibeis, who retired from Penn State in 1978, was a member of the Washington Grade 157 in Pine Hall, the Pennsylvania State Grade and the National Grade.

William F. Fatula, assistant director in the Physical and Engineering Plant, Office of Physical Plant, from March 5, 1962, until his retirement March 1, 1988; died Aug. 26 at the age of 72.

Alice Bailly Keener, a secretary at Penn State for 20 years before retiring in 1981, died Sept. 22. She was 79.

Charity R. Kelley, 84, of State College died Sept. 15. Before retiring in 1974, Kelley served as a registration manager in the Department of Adult Education for 15 years. She is survived by a son, a stepdaughter, 13 grandchildren and 13 great-grandchildren.

John Lawther, who led the Penn State men's basketball team to its first NCAA Tournament berth, died recently at his home in Southern Pines, N.C. He was 97.

Lawther was head coach of the Nittany Lions from 1937-49, compiling a career record of 150-93 over 13 seasons. Following his coaching days, Lawther remained on the faculty as associate dean of physical education before retiring in 1965. A native of Selenia, Ohio, Lawther had his most successful season in 1941-42 when he led the Lions into the NCAA Tournament with a 17-2 record that included a string of 12 consecutive victories to close the season.

William K. Osman Jr., payroll supervisor in Accounting Operations, from Nov. 1, 1940, until his retirement March 1, 1965; died Sept. 4 at the age of 84.

Hermance Reese, assistant professor of physical education for women from July 1, 1947, until her retirement July 1, 1966; died Sept. 4. She was 96.

Mary Ann Richards, a retired employee of Penn State, died Sept. 16 at the age of 85.

John J. Schoch, janitorial worker in the Office of Physical Plant, from May 17, 1982, until his retirement Jan. 8, 1994; died Sept. 22. He was 62.

Thelma J. Winand, administrative assistant II in the College of Health and Human Development, from Sept. 1, 1978, until her retirement Dec. 31, 1994; died Sept. 1. She was 68.

Kathleen P. Zaph, senior medical technologist in Student Services, from July 1, 1981, until her retirement April 1, 1992; died Sept. 18. She was 70.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Improving academic processes

Today, eight Penn State campuses will connect to University Park via interactive compressed video (PicTel) to take part in a panel discussion about improving academic processes through CQI. Faculty and staff from Altoona, Behrend, Delaware County, Harrisburg, Hazleton, McKeesport, Wilkes-Barre and Worthington Scranton will present their questions to panelists who will explore specific Penn State examples of where CQI is being used to improve classroom processes. Panelists include faculty members Bill Engelbret, Linda Null and Fred Eisele.

A call for papers

Public Productivity & Management Review, a refereed journal co-sponsored by the American Society for Public Administration and the National Center for Public Productivity, Rutgers University, invites manuscripts pertaining to the use of performance models in academe.

Examples of these models include: continuous quality improvement, managing for results, performance-based management and strategic planning and budgeting. Such models envision the linkage of organizational mission to measurable goals and the evaluation of performance by explicit means of assessment.

If you would like to receive a copy of the call for papers, please call the center at (814) 863-8721.

Facilitator fundamentals

The *Facilitator's Guide to Participatory Decision-Making* by Sam Kaner, a new publication that focuses on the dynamics of group decision-making, tools for building sustainable agreements and the role of the facilitator, may be borrowed from the Center for Quality and Planning, 303 Old Main.

For more information about Continuous Quality Improvement, please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, at les1@psu.edu.



Setting the table

Jamie Olweiler, left, and Kevin McGehee, seniors in hotel restaurant industry management, measure for correct placement of silverware at Cafe Laura on the University Park Campus. Their HRIM 430 advanced restaurant management class was preparing the cafe for "A Touch of Italy Night." The students offer fine dining at Cafe Laura every Wednesday and Thursday. Reservations can be made by calling (814) 863-8990. The class also offers lunch at the restaurant from 11:30 a.m. to 1:30 p.m. Monday through Friday.

Photo: Kristie Guldner

University Park kicks off United Way campaign

The University Park United Way Campaign will officially get under way on Friday, Oct. 25.

Some 300 Penn State volunteers, as well as members of the Centre County United Way Board of Directors, are expected to attend the campaign kickoff, scheduled for 4 p.m. at the Nittany Lion Inn on the University Park Campus.

The goal for this year's campaign and the leadership gifts received will be announced. Speakers will include President Graham B. Spanier and Tim Curley, athletic director and chairman

of this year's University Park campaign.

"One of the perceptions we found in our visits to academic deans and other administrators is that United Way services are aimed principally at the immediate State College area," Curley said.

"Actually, 64 percent of the services provided by the agencies last year were outside State College. The United Way affects a wide area of Centre County. We have many employees who live outside of State College who have been served by United Way agencies."

Curley said another major goal of this year's campaign is to increase the Penn State employee participation rate.

Last year, we had about a 32 percent participation rate. We are working hard on achieving a 40 percent participation rate among all employees."

Also at the kickoff, the video produced for the Centre County United Way will be debuted. The video was written and produced by Chuck Ungar, senior producer-director at WPSX-TV.

Harrisburg board of advisers adds eight

Four Penn State Harrisburg graduates are among the eight community leaders who have joined the Capital College's Board of Advisers.

Elected to the Board are: Hasu Shah, Frederick G. Merkel, Henry Line, Daniel L. Kovlak, James Knubel, Louis Farina, Ronald J. Drnevich and Carol Forker Gibbons. Shah, president and CEO of Hersha Enterprises Ltd. in New Cumberland, holds a master's degree in public administration from Penn State Harrisburg and a bachelor's degree in chemical engineering from Tennessee Technological University. He owns and operates several personal care homes, apartments, offices and hotels. Merkel, president of HealthAmer-

ica of Central Pa. Inc., also holds a master's in public administration from Penn State Harrisburg.

Line, vice president for Global Product Standards at AMP Inc. in Harrisburg, earned three master's degrees, including a master's in administration from Penn State Harrisburg.

Knubel, managing partner with KPMG Peat Marwick LLP in Harrisburg, graduated magna cum laude with a bachelor's science degree from University of New Haven and later earned a master's in finance from University of Bridgeport.

Knubel, vice president and director at TMI, CPU Nuclear Corp. in Middletown, earned a master's in

business management from Fairleigh Dickinson University.

Farina, a judge in the Lancaster County Court of Common Pleas, graduated from Penn State and the Dickinson School of Law with honors.

Drnevich, president of Gannett Fleming Inc. in Harrisburg, graduated from University of Notre Dame with a bachelor's degree in civil engineering.

Gibbons, a 1979 graduate of Penn State Harrisburg with a bachelor's degree in humanities, is the former director of community relations at the Museum of Scientific Discovery in Harrisburg. She serves the YWCA of Greater Harrisburg as co-chair of its capital campaign.

Faculty/Staff Survey

A follow-up

Penn State moves to address the issues

Throughout the University community, Penn State administrators, faculty and staff have begun to address the issues raised in last winter's survey. The survey drew responses from about 47 percent of the University's full-time faculty and staff at all locations, except The Hershey Medical Center, which did not participate in the survey.

Among the issues highlighted by the responses was the need for mutual respect and better communication and teamwork. This insert, prepared by the Office of Human Resources, describes a few of the improvement initiatives currently being developed in these areas.

"In most areas of the University, the survey results are being used to identify opportunities for improvements. These improvement initiatives are being integrated into the strategic plans being drafted in each area. As the planning process unfolds, faculty and staff need to have the opportunity to react to relevant parts of the plan for their area to ensure that follow-up actions meaningfully address the issues identified in the survey."

BILLIE S. WILLITS, assistant vice president for human resources

A report from Susan Welch, CQI council chair ...

The Continuous Quality Improvement Council is determined that the results of the Faculty/Staff Survey will yield some concrete actions." Council Chair Susan Welch told Penn State's trustees at their September meeting.

"The CQI Council planning team wanted a survey," she explains, "that would produce meaningful information to identify opportunities for improvements in work processes."

One of the findings that Welch communicated to the trustees was that "a minority of our faculty and staff report inadequate communication or lack of respect in their own units ... between faculty and staff, between administrators and faculty, and between administrators and staff." She continued, "I can report that on this dimension we have some comparative data from a national survey of university faculty reported in September 1995 in the *Chroni-*

cle of Higher Education. Two items were used both there and in our own study. These data show that our faculty, compared to faculty around the nation, are much more likely to feel that they are informed about what is going on (60 percent of our faculty think so compared to only slightly over 40 percent nationwide) and are much more likely to say that relations between faculty and administrators are good."

"While this is an encouraging benchmark, again we cannot be satisfied that about one-third of our faculty and staff report either poor communication or lack of respect within their units."

Citing another illustration of the need to improve communication, Welch said, "Even though, for the most part, faculty, staff and administrators value the same things, there is a significant discrepancy between what our faculty and staff value and what

they think administrators value. Almost all of our faculty and staff say, for example, that they value the quality of individual job performance; 100 percent of administrators say they value it, too. Yet only about 70 percent of faculty and staff think deans and directors value the quality of job performance, and only 50 percent think that top administrators do."

Looking at the data for her own college, Welch found that while the level of job satisfaction for staff exempt personnel was above the University average, many in the staff non-exempt category were less satisfied about respect, communication and teamwork.

"We're studying differences in the treatment of these two groups," she said, "and will hold open forums as part of our effort to reinforce the underlying concept that all of us in liberal arts need to work together."

Eberly College staff to hold autumn retreat

After studying responses to the values survey and their relevance to his own faculty and staff, Eberly College of Science Dean **Gregory L. Geoffroy** has decided on a two-pronged approach to address the issues that were raised.

"We are holding a fall retreat which will bring together all the members of the Dean's Office complex to discuss the major findings of the survey," he said. "Then we will set up breakout groups with the charge of developing strategies to improve areas of deficiencies."

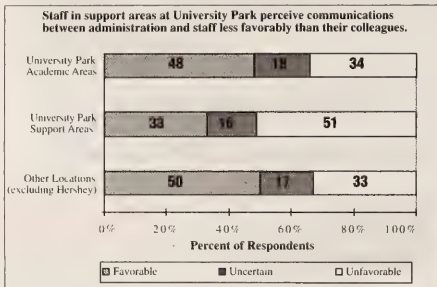
Geoffroy's other approach involves encouraging department heads to address problems of respect, communication and teamwork in their units. Toward this end, he has initiated discussions during regularly scheduled executive committee meetings and has also met separately with each department head.

"Any action plans we develop from this process will be incorporated into our strategic planning," he noted.

Geoffroy believes that effective, regular communication between department heads and their faculty and staff is essential.

"It's no secret," he said, "that staff often feel like second-class citizens. So many parts of the University's operations revolve around the faculty, because they are at the heart of the teaching and research missions. But the staff support that mission, and sometimes faculty do not treat them as full partners."

"For a college or the University to work at maximum efficiency, faculty and staff should work together as a team. I don't see these problems as unique to Penn State, but that's no reason why we shouldn't be trying to solve them here."



Action taken to improve at Penn State Erie, The Behrend College

As the leadership of Penn State-Erie dug into the survey results for their campus, it was the area of communication that caught their attention. "As both an academic college and a full-service campus, we had always thought we did a pretty good job of communicating with the 400 members of our staff. Now, however, we know we can do even better," said **John M. Lilley**, provost and dean.

"For example, I've always made a point of getting out and speaking to the various elements that make up our Behrend College community, but I didn't really do this systematically. That's been changed. We'll hold regular meetings where all of our faculty and support staff will have an opportunity to ask questions and discuss issues with me."

Behrend administrators were also concerned to discover how many members of the support staff did not understand the College's three-fold mission of teaching, research and service.

"That identification is automatic for faculty and administrators," Lilley points out, "but it's our job to help everyone see themselves as an integral part of this mission."

"It's a support staff who, in their dealings with students, set much of the tone of the campus," Lilley said. "They provide a context for what we're doing. If they are not respected and made to feel that their contribution is important, we won't be able to benefit from their wisdom to the extent that we should."

"Changing people's attitudes is a challenge, but it's one about which I'm vitally concerned. All of us need to believe that what we do matters. If we don't, we will never be happy in our jobs."

"When we do the survey again, as we plan to do, I'm hopeful that we will find a definite change for the better in people's attitudes toward each other. It won't be easy to bring about this kind of change in a time of fiscal constraints, but when you're asking people to do more with less, they have to feel valued and respected and part of the team."

LOUISE E. SANDMEYER, executive director,
Center for Quality and Planning

Departments use own approaches

Eberly College department heads have chosen different approaches to bring about improvements in respect, communication and teamwork within their units.

Because most of the respondents in astronomy and astrophysics were staff members, department head **Peter L. Mezaros** set up a half-day retreat, including a lunch, for laboratory technicians and department staff. Basic problems of communication became evident as complaints surfaced that supervisors were not making their expectations clear or allowing sufficient feedback," Mezaros said.

As a follow-up, he compiled a list of suggestions for supervisors, who then met with their staff to develop solutions.

"I think the atmosphere in the department is noticeably brighter now," he reports.

Howard Grotch, head of the Department of Physics, held a retreat in his home for his entire department staff, including office, instructional support and electronics staff, the technical staff supervisor and members of the department's faculty advisory committee.

"The purpose was to discuss the survey and to let them know that we were being asked to submit a strategic plan that could possibly involve them," he said. "I asked for their views on planning and let them know that their opinions were valued."

"The meeting was very beneficial," staff assistant **Sally Roberts** said. "When we explained, for example, that keeping the office open over the noon hour meant that those of us who were on break could no longer eat at our desks without interruptions, we were assigned a 1:30 p.m. for our exclusive use."

Private interviews with everyone on his faculty and staff are being conducted by **George E. Andrews**, mathematics department head and Evan Pugh professor of mathematics. Andrews believes that as a department head he should be a funnel for communication.

"Miscommunication leads to unfortunate behavior," he points out. "A staff assistant may face a frustrated faculty member, who, in reality, is basically frustrated with the system, and that translates into a lack of respect. I am trying to draw the attention of the faculty to the fact that staff can't overcome the way the system works."

... and from Scott Kretchmar, Faculty Senate chair

The academic atmosphere at Penn State is one of the major themes under consideration this year by the University Faculty Senate, according to Senate Chair **R. Scott Kretchmar**, professor of exercise and sport science.

As part of this study, the Faculty Affairs Committee will review the survey results with an eye to preparing recommendations for Senate action.

"An important issue for faculty attention,"

Kretchmar said, "is the critical role that many of the academic support staff play in promoting the satisfaction of our clients — the students."

"Most students have their first important contacts with the staff of the University during the admission and registration process. The quality of

that contact plays a large role in the satisfaction they experience as they enter the University community."

Kretchmar points out that faculty lack of awareness of the efforts of support staff is probably due to lack of knowledge. In a move to correct this, the Senate's officers recently sent an open letter to faculty underlining the significance of out-of-classroom experiences in student academic success.

"These experiences," Kretchmar notes, "involve everything from using library services to establishing an atmosphere in the residence halls that is conducive to work."

Turning to the subject of teamwork, Kretchmar comments that many faculty have been socialized by

their academic disciplines to reject the concept of teamwork.

"Universities," he continues, "have traditionally had many islands of activities, centered on discipline species and sub-species and sub-sub species, but newer models are beginning to require that faculty and staff leave their enclaves and make contact with one another to help students make necessary interdisciplinary connections."

"I am very concerned that we are seeing an erosion of the academic passion among students not just at Penn State but across the academic spectrum. This is a problem that no one element of the University can solve alone. There has to be teamwork with faculty and staff working in a coordinated effort."

Survey validates improved communication as a top priority for those in Business Services

Survey findings revealed that for three items — communication between administration and staff, respect between administration and staff, and respect between faculty and staff — satisfaction among respondents in University Park support areas was substantially lower than among those in academic areas or at other Penn State locations.

"The survey validated for me the issues requiring priority consideration," says

Betty J. Roberts, assistant vice president for Business Services. "When I came to Penn State I took my own survey to identify factors inhibiting quality in our organization, and I found that lack of communication was a major issue."

"We will have a retreat this fall which will include discussions of the University survey findings and will seek ways to incorporate into our strategic planning the opportunities for change it presents."

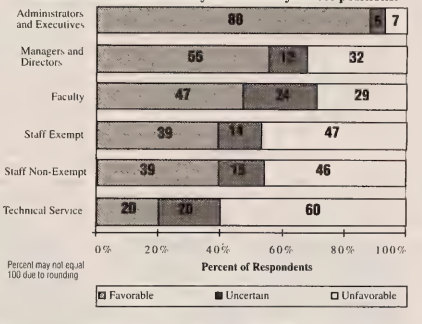
Business Services already has teams of staff and technical service personnel working on ways to improve internal communication.

"As a very diverse organization," Roberts explains, "we must assure that our units understand each other's missions. One way to do this is by putting together small teams to work on specific assignments. For example, a group in Fleet Operations is looking at ways to improve communication between members of the staff as well as between management and staff."

"Business Services is making available opportunities for education and communication," according to **Ann Harpster**, a Copy Center operator. "However, although changes are coming rapidly, many technical service employees find it especially discouraging when their ideas are not received with the same enthusiasm as management expects when its own ideas are put forward."

One of Roberts' important ongoing activities is a monthly "Brown Bag It with Betty" lunch for her entire organization. She may use the occasion to explain a University-wide organizational change that impacts on Business Services' operations, or she may invite a representative from central administra-

Faculty and staff perceptions of communication between administration and staff vary substantially across positions.



tion to speak informally to the group. Visitors have included President **Graham B. Spanier**, Senior Vice President for Finance and Business/Treasurer **Gary Schultz** and Coach **Joe Paterno**.

Business Services employees were asked for input on topics of special interest to them, and their suggestions sparked the establishment of a series of health seminars, also held during the lunch hour.

April Martell, a staff assistant in Finance and Administrative Services, has been at Penn State for nine years.

"I've noticed a positive response to the current emphasis on improving communication, respect and teamwork," she said. "People are beginning to feel that they are valued."

"Right now I'm part of a team that includes both staff and technical service people. We're working together to create an evaluation tool that will be useful in assisting professional development for tech service personnel."

"I do feel strongly," Roberts said, "that when you ask people to serve on a team and do a job over and above their normal workload, they deserve thanks for doing it."

"In Business Services, we present each team member with an award in the form of a certificate of appreciation that can be framed, and staff members who have received them seem to like this approach."

Harrisburg also takes some quick action

"In everything I do and say I try to emphasize that we are here as a team for our students and that we owe them quality service," **John G. Bruhn**, provost/dean at Penn State Harrisburg, said.

"As provost," he said, "I make an annual visit to each of our academic units for an open agenda dialogue. I don't believe in holding meetings in my office — except in cases where personal issues are involved."

Guided by this philosophy, Bruhn was already moving to implement changes at his campus to improve communication, teamwork and respect, and he feels that the values survey has confirmed that decision.

"To me, the central issue is to reduce the problem of 'class-ism' that the survey highlighted throughout the University," he said. "This is an issue mainly between faculty and staff. Penn State-Harrisburg has a student government and a faculty senate, but there has been no organized way for staff to have input."

Among the programs instituted by Bruhn are a quarterly forum open to all members of the staff, and bi-monthly sandwich lunches for small groups of faculty and staff.

"Discussing things together helps people cut across artificial class lines," he said.

Ed Dankamich, head of physical plant at Penn State Harrisburg, agreed.

"The custodial staff is often perceived as low on the totem pole," he said, "and we need to make them feel part of the team. I hold three annual meetings to foster inter-group communication, and by attending the provost's quarterly forums, I give members of the faculty and staff a chance to communicate directly with me about any problems they've experienced with physical plant."

Penn State Harrisburg also offers faculty, students and staff a chance to participate in a "Good Idea Contest." A committee reviews the ideas submitted and a reward is presented quarterly to a contest winner.

"We give a high priority here at Harrisburg to customer service and excellence in our treatment of prospective and current students," Bruhn said. "But all of us must also realize that the ways in which we treat each other are just as important."

Putting it in perspective:

Two members of the faculty offer an overview of the processes

David V. Day, associate professor of psychology, focuses on industrial/organizational psychology, studying such workplace issues as leadership and work attitudes.

While noting that fundamental changes in the culture and climate of an organization can't be made overnight, Day points out that the first step toward change is to acknowledge a need for it.

"In that sense," he said, "the survey has served its purpose. The University community has acknowledged that there are issues of communication and leadership that need to be discussed, and an exchange of ideas on ways to improve them has begun."

One approach to the difficult task of changing the culture of an institution is the Continuous Quality Improvement (CQI) process, according to Day.

"CQI," he continues, "is an attempt to address issues relative to teamwork, respect and communication. But CQI hasn't been in place that long at Penn State, and it's unrealistic to expect that dramatic changes and remedies could occur so quickly. What we might expect, however, is that if there is continued support for CQI and it is more fully integrated into Penn State's culture, in time we should begin to notice improvements."

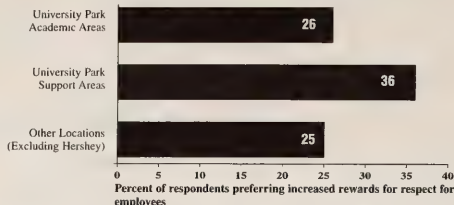
"Implementation of CQI principles," Day said, "was begun through the efforts of upper level Penn State administrators, and only now is it beginning to move down through the organization. Maybe it hasn't fully permeated the organizational structure to the degree the administration wants it to, but ultimately it will help address the issues raised by the survey."

Day warns, however, that because fundamental change is such a long-term process, it's important that those who implement it remember three things:

- 1) Expect resistance. Don't take resistance personally. Try to work with it.
- 2) Prepare people for change. It can't be done by edict.

INCREASE REWARDS

Faculty and staff in support areas at University Park indicated substantial interest in increasing rewards for respecting all employees



"The CQI movement is an effort to prepare people for change, to say, 'We want you to be a part of it.' I'm particularly encouraged by the fact that Penn State's administration has been so willing to share the survey results and highlight the issues," he said. "The problems aren't that surprising, but, typically, organizations prefer to bury their problems. I think this approach at Penn State reflects the beginning of a more open culture."



Judith A. Kolb teaches applied organizational communication and does research on leadership and teamwork. An assistant professor of speech communication, she worked for many years as a corporate consultant and trainer.

The issues that have come to the fore at Penn State as a result of the Faculty/Staff Survey are com-

mon to most large organizations, according to Kolb, and addressing them successfully involves the development of what she terms a "collaborative climate."

"This is a slow process," she cautions, "and often the first feedback from efforts at change will be less positive than expected. It takes time to produce an open climate with a free flow of communication, trust and respect."

Kolb points to General Electric's efforts in building a collaborative climate as a fairly typical example of what is involved.

GE started out by putting together small groups of employees and giving them a chance to voice their concerns. At the beginning, management found that the topics they wanted to address weren't necessarily those of interest to their employees. Some of the latter group's concerns — for example, the system for assigning parking spaces — seemed trivial to management, but that was where they started. After a time, the interests of the two groups came together, partly as trust developed and staff felt free to share their ideas.

"People need to feel not only that someone is listening to them but also that something is going to happen," Kolb emphasizes. "If they make a suggestion that can't be implemented, they should be given reasons why."

Employees need not always agree, however, with each other or with management, according to Kolb.

"Quaker Oats is an example of a company that actually encourages disagreement," she said. "They've found that creative tension develops when people disagree about ideas and that if opinions are honestly shared, the best ideas emerge. Conflict can be healthy as long as it is about ideas and not about personalities."

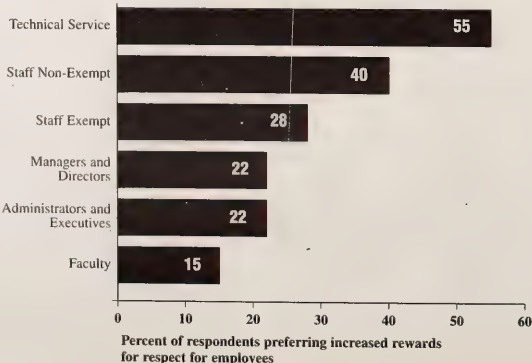
Establishing a more collaborative climate can take as long as five to seven years, in Kolb's experience.

"The early steps are very important," she notes. "People have initial meetings and are very enthusiastic. If they share ideas and nothing happens, they begin to feel their trust has been violated and it's hard to win them back. Organizations should start out with realistic, achievable goals, so people can see some results."

"To my mind, the important thing about Penn State's survey was the asking of questions about reward systems. That's a key to the culture of an organization. What is evaluated, what is measured indicates what really matters to the administration."

BREAKOUT OF RESPONDENTS

Technical service and non-exempt staff feel the University should place greater emphasis on respect for all employees. Other groups indicated somewhat less interest in increasing rewards for this value.



McKeesport receives \$413,560

The Penn State McKeesport Campus has received a gift of \$413,560 from **Robert W. Ostermayer Jr.** and his wife, **Elizabeth**, of Wellington, Fla. Robert Ostermayer, a Penn State alum, is an emeritus member of the McKeesport Campus Advisory Board, on which he served from 1975 to 1989.

The Ostermayers did not designate a specific purpose for their gift. This is the second gift to the McKeesport Campus from the Ostermayers. In 1990 they made a bequest of \$481,875, designated for academic program support.

Robert Ostermayer is retired president of the Hercules Jefferson Plant, manufacturer of hydrocarbon resins in West Elizabeth, Pa. The facility was formerly the Pennsylvania Industrial Chemical Corp. (PICCO), which merged with Hercules Inc. of Delaware in 1973. Mr. Ostermayer had served as president of PICCO.

Ostermayer earned a bachelor of science degree in commercial chemistry in 1942. Elizabeth Ostermayer received her R.N. from McKeesport Hospital in 1945. The Ostermayers have two daughters and a son.

Former quarterback ends on position

Former All-America quarterback **Kerry Collins**, now with the NFL Carolina Panthers, contributed \$250,000 to the athletic department to permanently endow the quarterback position.

The gift will completely fund the **Kerry Collins Endowed Scholarship for Quarterbacks**. On an annual basis, a player at the quarterback position will receive the Collins scholarship.

"My years at Penn State were meaningful to me, not only for the impact on my future as an athlete

but also on preparation for a productive life when my football career is over," Collins said. "Penn State always will be very much a part of anything I do and this gift is a demonstration of my respect for the University and its athletic program."

Athletic director **Tim Curley** said the contribution is the first in a new program which permits donors to fully endow a position on the football team, or any other athletic squad, with a \$250,000 gift.

WISE sponsors conference for teen-age girls

The seventh annual **Your Horizons in Science** mathematics and engineering conference will be held on Oct. 26. The conference is for seventh-, eighth- and ninth-grade girls in central Pennsylvania and will be held on the University Park Campus.

The conference, sponsored by **Women in Science and Engineering**, aims to increase interest in

science and mathematics, present information about opportunities in math and science-related careers and provides female role models who are working in technical careers. These goals are approached through both hands-on workshops and panel discussions.

For more information, call (814) 365-3342.

Faculty/Staff Alerts

Holiday schedule

University offices and operations, except for essential services and operations, will close at the normal end-of-business times on Friday, Dec. 20, and will resume at normal starting times on Thursday, Jan. 2.

The official University holidays are Monday, Dec. 23, through Friday, Dec. 27; Monday, Dec. 30; and Wednesday Jan. 1.

Tuesday, Dec. 31 is not a University holiday. Therefore, employees who are off that day will charge vacation or personal holiday. If Tuesday is a normally scheduled workday, any individual who chooses to work will be permitted to do so. In such instance, temperature conditions in the work area may be less than ideal.

This special holiday schedule will not increase the number of holidays granted. It will, however, provide a more desirable and efficient application of the time.

In keeping with this schedule, the Payroll Office will release monthly paychecks on Friday, Dec. 20, but checks will be dated Dec. 31 and will not be negotiable before then. Automatic deposits will not be made early. Biweekly paychecks will be distributed as usual on Friday, Dec. 20, the normally scheduled pay date.

This schedule and payroll information is not applicable to The Hershey Medical Center.

Questions regarding the above holiday information should be directed to the appropriate college or department human resources representative, or director of business services at a facility away from University Park.

CAC Web space now available

The Center for Academic Computing (CAC) has World Wide Web server space available for all Penn State colleges, departments, officially recognized student organizations, faculty, staff and students. An access account is required in order to apply for a CAC Web account.

Individuals can apply by completing an application form at URL: <http://www.psu.edu/webspaces/>

Student groups or organizations can apply for Web space through Interface, the student computer club, at URL: <http://interface.cac.psu.edu/interface/>

Colleges, departments, or other official units should request a paper application form from the Computer Accounts Office, 230 Computer Building, University Park, (814) 865-4772, accounts@psu.edu. A Web-based application form will be available soon at URL: <http://www.psu.edu/webspaces/>

Additional details are available on the Web at URL: <http://www.psu.edu/publish/>

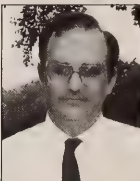
25-year Awards



Sandy Breckenmaker



Frederic M. Leeds



J. Michael McVay



James F. Smith



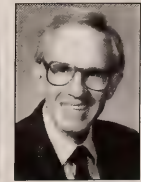
Betty Meholic



Marion Miles



Hiroshi Ohmoto



Daniel W. Pfaff

Observing 25 years of service at the University are, from left, Sandy Breckenmaker, patient care technician at The Hershey Medical Center; Frederic M. Leeds, director of academic affairs and assistant professor of French at the Penn State Shenango Campus; J. Michael McVay, assistant professor of mathematics, and James F. Smith, professor of English, both at the Penn State Abington-Ogontz Campus; Betty Meholic, nutrition education adviser in Lackawanna County; Marion Miles, nutrition education adviser in Clearfield County; Hiroshi Ohmoto, professor of geochemistry in the College of Earth and Mineral Sciences; and Daniel W. Pfaff, professor of journalism in the College of Communications.

News in Brief

Course offered

Enlightening Lunch — Nursing Home Negotiations

Shopping for a nursing home for a loved one can be a difficult and emotional task. In this brown-bag discussion, explore ways to navigate through the maze of options, levels of care, waiting lists, legal issues and prices of nursing home care. Meets from noon to 1 p.m. Thursday, Oct. 24, in 110 Henderson Bldg. (The Living Center). To register, contact **Jan Hawbaker** at (814) 865-3085 or jqh3@oas.psu.edu.

The ARTS

AT PENN STATE



On display

The exhibition "Cusco: Past and Present of an Ancient Civilization. A Photographic Journey," based on the work of Uruguayan photographer Jose M. Quejeda, will be in the HUB Research Exhibition Area on the University Park Campus Nov. 4 through 18.

Paintings on exhibit in Harrisburg through Nov. 1

Get a taste of Nova Scotia with the work of Elizabeththorn College art professor Lou Schellenberg, the second in a series of artists to exhibit in the Gallery Lounge at Penn State Harrisburg. Her figurative and representational works on canvas and paper are on display through Nov. 1.

Schellenberg earned a master of fine arts degree from the University of Albany in 1990 and a diploma from the School of the Museum of Fine Arts in Boston in 1981.

Her work has been exhibited in galleries throughout the East Coast including: the Boston Center for The Arts, Art Institute of Boston, University Art Museum SUNY, N.Y., and University Gallery, University of Delaware.

Mallet Ensemble to perform for Bach's Lunch

The Penn State Mallet Ensemble, under the direction of Dan C. Armstrong, professor of percussion, will perform its annual fall concert for the

Bach's Lunch concert series on Thursday, Oct. 24, at 12:10 p.m. in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

For the Bach's Lunch concert, the Mallet Ensemble will perform standard classical works transcribed for keyboard percussion instruments including marimba, xylophone, vibraphone and glockenspiel.

Two students will perform individual works. Teri Stephens, a junior in music education, will play a jazz-inspired piece by Harry Bruehr for xylophone and piano, and Michael Hooper, a senior in music performance, will perform "Time for Marimba" by Minoru Miki.

Audience members may bring their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Latin American Association exhibition

The Penn State Latin American Association presents the exhibition "Cusco: Past and Present of an Ancient Civilization. A Photographic Journey" based on the work of the Uruguayan photographer Jose M. Quejeda. The exhibition, based on the photographer's trip to the former capital of the Inca Empire, displays more than 20 images that depict the different cultural components (ancient traditions, religion and modern lifestyles) that shape the present life of Cusco inhabitants. The exhibition opens on Nov. 4 at the HUB Research Exhibition Area on the University Park Campus and will be displayed until Nov. 18.

Odyssey Through Literature on WPSU

On the next episode of Odyssey Through Literature, English Professor Bruce Weigl reads from and discusses

his 1996 collection of poetry, *Sweet Lorain*, and its origins both in youth and in war.

Weigl explains that he thinks of himself as "essentially formed by a boyhood in a town of workers and immigrants and by a young manhood in the jagged, muddled and bloody war of Vietnam." Weigl's poetry deals with his experiences in both his hometown, Lorain, Ohio, and Vietnam.

Odyssey Through Literature is produced by the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WFSU, 91.5 FM.

Community Arts Center has full schedule

The following performances are planned as part of the remaining 1996-97 season for the Community Arts Center in Williamsport, part of the Pennsylvania College of Technology:

■ Marie Osmond Holiday Special at 7:30 p.m. Saturday, Dec. 14; tickets are \$40.50/\$32.50/\$25.50/\$22.50

■ "La Bohème," presented by the New York City Opera, Jan. 15 at 7:30 p.m.; tickets are \$35.50/\$25.50/\$18;

■ "Winter Overture," presented by the Williamsport Symphony Orchestra, Jan. 25 at 8 p.m.; tickets are \$35/\$30/\$24/\$19/\$16/\$12;

■ "Kiss of the Spider Woman" on Jan. 28 at 7:30 p.m.; tickets are \$33/\$25.50/\$20.50;

■ "Royal Winnipeg Ballet," presented by Lycoming College, Jan. 31 at 8 p.m.;

■ "Singin' In The Rain" on Feb. 11 at 7:30 p.m.; tickets are \$33/\$25.50/\$20.50;

■ "Tommy" at 7:30 p.m. Wednesday, March 12; tickets are \$33/\$25.50/\$20.50; and

■ "Sesame Street LIVE" at 7 p.m. Friday, April 4; 10:30 a.m., 2 and 5 p.m., Saturday, April 5; ticket prices range from \$9.75 to \$12.75. Tickets do not go on sale until Nov. 29.

Promotions

Staff

Shirley A. Nye, supervisor, Outpatient Scheduling/Registration, at The Hershey Medical Center.

Ronald J. Ondo, project coordinator in Office of Physical Plant.

Jean Palladino, staff assistant VI at the Penn State Delaware County Campus.

Eugene H. Plummer, supervisor, renovators, at The Hershey Medical Center.

Cynthia E. Pollick, director, Imagination Station, in Office of Human Resources.

Karen R. Pothering, staff assistant VII at the Penn State Schuylkill Campus.

Michelle L. Pritz, information systems support associate in Computer and Information Systems, Administrative Systems.

Lisa M. Richtscheit, building services coordinator in Office of Communications.

Mimi C. Ridenour, network specialist/writer-editor in Computer and Information Systems, Academic Computing.

Lori Robinson, staff assistant V at the Penn State Altoona Campus.

Kathleen D. Satele, business/clinical center coordinator at The Hershey Medical Center.

Tina Saylor, staff assistant VI at The Hershey Medical Center.

Thomas W. Schaffer, financial officer IV in Corporate Controller's Office.

Kimberly S. Schindler, staff assistant IV in Housing and Food Services.

Thomas R. Sharer, supervisor, Renovations II, in Office of Physical Plant.

Betty J. Shaw, computer center specialist I in Undergraduate Education, University Learning Resource Centers.

Margaret Skerchock, office information specialist in Housing and Food Services.

Dennis E. Smith, supervisor, Renovations II, in Office of Physical Plant.

Louise Smith, staff assistant VI at Penn State Harrisburg.

Lisa Stamm, staff assistant V in College of Arts and Architecture.

Douglas W. Stanfield, coordinator, information technology, in Office of University Relations.

Paulyna Stecko, assistant supervisor, soil and forage, in College of Agricultural Sciences.

Susan M. Stone, staff assistant VI at The Hershey Medical Center.

Beth Swartz, staff assistant VI at Penn State Harrisburg.

Michael D. Tepsic, supervisor, Renovations II, in Office of Physical Plant.

Kathleen T. Terry, assistant nursing manager at The Hershey Medical Center.

Cassandra M. Thompson, health promotion specialist II in Office of Human Resources.

Marilyn E. Vojtasek, staff assistant VI at the Penn State Berks Campus.

Andrew T. Walls, senior office information specialist in Continuing and Distance Education.

Susan J. Weaver, staff assistant VI at The Hershey Medical Center.

Terry L. Weiler, supervisor, Renovations II, in Office of Physical Plant.

Wendy J. Whitesell, director, Child Care Programs, in Office of Human Resources.

Tina M. Wible, patient account assistant at The Hershey Medical Center.

Carol B. Wilson, senior research technician at The Hershey Medical Center.

Christine L. Yoder, attending nurse at The Hershey Medical Center.

Lawrence E. Zemanek, information systems support consultant in Computer and Information Systems, Administrative Systems.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, October 18

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Glenn Williamson, curator, on "Contemporary Art From the Pincus Collection." For tickets, call (814) 863-0255.

University Resident Theatre Company, 8 p.m., Playhouse Theatre. "A Cry of Players," through Oct. 26. For tickets, call 863-0255.

School of Music, 8 p.m., Recital Hall. Melissa Hart, mezzo-soprano.

Saturday, October 19

Fall foliage hayrides, 4 p.m., Stone Valley Recreation Area. To preregister, call 863-0762.

Fall foliage hikes, 4 p.m., Stone Valley Recreation Area. To preregister, call 863-0762.

Sunday, October 20

Palmer Museum of Art, 1 p.m., Christoffers Lobby. Sarah Andrews, Gallery Talk on "Portraiture in American Art."

School of Music, 8 p.m., Recital Hall. Susan Boardman, soprano.

Thursday, October 24

School of Music, 12:10 p.m.-12:30 p.m., Eisenhower Chapel. Bach's Lunch concert by The Penn State Mallet Ensemble. Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "New York Voices." For tickets, call 863-0255.

School of Music, 8 p.m., Recital Hall. "The Pennsylvania Quilter"

Thursday, October 25

Palmer Museum of Art, Christoffers Lobby, 2 p.m. Mary F. Linda, Gallery Talk on "The Gods Must Be Hungry."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "London Chamber Orchestra." For tickets, call 863-0255.

Sunday, October 27

School of Music, 3 p.m., Recital Hall. D. Douglas Miller, conductor, presents "Penn State Concert Choir/Chamber Singers."

SEMINARS

Friday, October 18

Physics, 2:30 p.m., SS Osmond Lab. Edward R. Grant on "Shape of the Benzene Cation."

Geography, 3:30 p.m., 206 Walker. Maryann Frazier on "The African Queen Comes to America: The Impact of Imported Honeybees."

Engineering Mechanics, 3:35-5:30 p.m., 214 Hammond. John Scully on "Corrosion."

Philosophy, 4 p.m., 124 Sparks. Barbara Duden and Ivan Illich on "Philosophy of History."

Monday, October 21

Economics, 10:30 a.m., 420 Kern Graduate Building. Steve Koch on "Conflict on Tobacco Road."

Comparative Literature, 12:15-1:20 p.m., 101 Kern. Rosalia Cornejo on "The Lesbian Gays in a Short Story by Spanish Writer Ana Maria Moix."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering Building. Joel Peterson on "Application of the Soil and Water Assessment Tool (SWAT) on a Pennsylvania Watershed" and Susan Wood on "Temperature Effects on Nitrate Removal in Artificial Wet-



Lecture

Michael Millgate, professor of English at the University of Toronto and biographer of Thomas Hardy, will speak on "Thomas Hardy's Max Gate Library: An Exercise in Reconstruction" at 8 p.m. Oct. 24 in 101 Kern Building on the University Park Campus. His lecture will honor the gift of a photographic essay on the settings of the seven major Hardy novels. The gift includes this and other photos by Leslie Greenhill. For more information, please see the story on page 4.

lands." Gravity Center, 2 p.m., 339 Davey Lab. Carlo Rovelli on "Space Time Form of Loop Quantum Gravity."

Physics, 3:30 p.m., 339 Davey Lab. Jay Maynard on "Resonant Ultrasound Spectroscopy."

Accounting, 3:30-5 p.m., 333 Beam BAB. Zoe-Vonna Palmrose on "Audit Litigation Research: Do the Merits Matter? An Assessment and Direction for Future Research."

Archaeological Institute, 8 p.m., 101 Kern. J. Clayton Fant on "Dialogue of Fresco and Stone in Pompeian Wall Painting." Undergraduate Student Government, 8 p.m., Schwab Auditorium. Ed Koch on "What It Takes to be Elected in America Today."

Tuesday, October 22

Geosciences, 4 p.m., 112 Walker. Robert Deconto.

Nutrition, 4 p.m., 110 Wartik Lab. Craig Baumannrucker on "IGF-System in Mammary Gland Biology."

Biology, Hamish G. Spencer on "Did Eugenia Rest on an Elementary Mistake?"

Wednesday, October 23

Biology, noon, 109 Walker. Hector Flores on "Newt and the Rhino: Reflections on Biological and Scientific Literacy."

Center for Russian and East European

Languages, noon, 124 Sparks. George Enten on "Impressions of Russia: An Update."

Center for Women Studies, 12-1 p.m., 120 Boucke Building. Jill Buchanan, nurse practitioner; Robert Henbach, chief gynecologist; JoAnna Meyer, clinical manager and nurse practitioner; and Carol Myers, nurse practitioner, on "Women's Health Issues in the 90s."

Gerontology, 12-1 p.m., 101 Health and Human Development. East, Margaret Perkinson on "Family Roles in Nursing Homes."

Physics, 1:30 p.m., 339 Davey Lab. Hans J. Hug on "Quantitative Magnetic Force Microscopy on Ferromagnetic and Superconducting Materials."

Engineering Mechanics, 3:35 p.m., 214 Hammond. Albert deRochmond on "Medical Device Accident Investigation: Case Studies."

Thursday, October 24

Ceramics, 11 a.m., 301 Steidle T.B.A. Gravity Center, 11:30 a.m., 339 Davey Lab. Steven Weinstein on "Conceptual Problems in Quantum Gravity."

12-1 p.m., 110 Henderson. Brown-bag discussion on "Nursing Home Negotiations."

To register, call 865-3085. Physics, 3:30 p.m., 101 Osmond Lab.

Humphrey Maris on "Low Temperature Physics and the Detection of Elementary Particles."

Food Science, 4 p.m., 117 Borland Lab. Tawfik Sharaki on "Perspectives on R&D from the Industry Standpoint."

Economics, 4 p.m., 420 Kern. Tian Zeng on "An Examination of Alternative Characterizations of Mean Reversion in Equilibrium Asset Prices and Returns."

7:30 p.m., 112 Walker. Poem reading by Paul Zimmer.

8 p.m., 101 Kern. Michael Millgate on "Thomas Hardy's Max Gate Library: An Exercise in Reconstruction."

Friday, October 25

Physics, 3:30 p.m., 339 Davey Lab. Tom Taylor on "Supersting Dualities in Five and Four Dimensions."

Engineering Mechanics, 3:35 p.m., 204 Sackett. John Scully on "The Transition from Melastable to Stable Fitting: Experiments and Modeling."

Geography, 4 p.m., 206 Walker. Peter Gleick on "Fresh Water in the 21st Century: Problems and Promise."

Monday, October 28

Comparative Literature, 12:15-1:20, 101 Kern. Lisa Reed on "On a Peculiar French Pronoun."

CONFERENCES

Monday, October 21

"Beyond TOM: What's Next for Business and Academia?" at The Penn State Scanticon, through Oct. 22

Wednesday, October 23

"Breaking the Barriers: Distance Delivery Models and Methods" at The Penn State Scanticon sponsored by Department of Continuing and Distance Education. To register, call (800) 778-8632.

Saturday, October 26

"Your Horizons in Science, Mathematics and Engineering" for seventh-, eighth- and ninth-grade girls is sponsored by Women in Science and Engineering. For information, call 365-3342.

Monday, October 28

"Innovations in Engineering Education" at The Penn State Scanticon is sponsored by the College of Engineering, through Oct. 29. For information, call (800) PSU-TODAY.

EXHIBITS

The HUB Working Gallery

Shalom Noiman, through Oct. 20

The HUB Formal Gallery

"Geography of the Unconscious," Nancy Moor, through Oct. 19.

Palmer Museum

"Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Cal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5.

Zoller Gallery

"BFA Exhibition," through Oct. 19.

Reflects an international perspective

Awards

Health and Human Development honors five

The College of Health and Human Development recently presented five faculty members with awards recognizing outstanding research contributions and commitment to advising and teaching.

A. Catharine Ross, professor of nutrition and Dorothy Eicher Huie Chair of Nutrition, received the 1996 Egan C. and Helen C. Pattishall Outstanding Research Achievement Award. **Barbara J. Rolls**, professor of nutrition and Helen Guthrie Chair of Nutrition, received the Pauline Schmitt Russell Distinguished Research Career Award. Both recipients will present a special research lecture in the spring. **Susan J. Loeb**, an instructor in nursing, received this year's Evelyn R. Saubel Faculty Award. **Gordon W. Blood**, professor of communication disorders and head of the Department of Communication Disorders, received the Dorothy Jones Barnes Teaching Award.

Doris "Tiz" M. Griffith, instructor in kinesiology and athletic director at the Penn State Delaware County Campus, was honored with the Commonwealth Educational System Faculty Achievement Award.

The Pattishall Award, given to Ross, honors a faculty member for outstanding research contributions occurring or culminating within the past several years. The award was endowed by **Evan Pattishall**, dean emeritus of the former College of Human Development, and his wife, **Helen Pattishall**, a 1985 graduate in individual and family studies.

Ross is recognized for her investigations dealing with vitamin A (retinoid) and health. In the mid-1980s, Ross began to examine the relationship between vitamin A status and resistance to infection.

Ross joined the faculty two years ago from The Medical College of Pennsylvania. She serves on the Departmental Promotion and Tenure Committee, the Graduate Program in Nutrition Steering Committee and the University Interim Steering Committee on BioSciences.

The Russell Award, presented to Rolls, recognizes a senior faculty member who has made outstanding research contributions across a major portion of his or her career. The award is supported with an endowment from **Leo P. Russell**, 1941 graduate in industrial engineering, in honor of his late wife **Pauline Schmitt Russell**, a 1948 home economics graduate.

Rolls was honored for her extensive contributions to human nutrition, especially related to food and water consumption. These contributions have

produced major advancements in our knowledge of the physiological and psychological controls of eating behavior.

Rolls came to the faculty in 1992 from The Johns Hopkins University School of Medicine. She has written one book, *Thirst*, and has published more than 100 refereed papers and book chapters. She serves on the National Diabetes and Digestive and Kidney Disease Advisory Council and the National Institutes of Health. This year, she will serve as the president of the North American Association for the Study of Obesity.

The Saubel Award, given to Loeb, recognizes faculty members for their service to students, accessibility as an adviser and caring professional style. It was established in honor of **Evelyn Saubel**, a 1935 home economics graduate and longtime assistant to the dean in the former colleges of Home Economics and Human Development.

Loeb is active in the Lion Liaison mentoring program for adult students and Sigma Theta Tau honor society, and regularly adopts unsassigned advisors who seek her out.

The Barnes Teaching award, bestowed on Blood, honors outstanding faculty members for both excellence in teaching and contributions to the art of teaching. The award is supported by an endowment from **Dorothy Jones Barnes**, a 1944 Home economics graduate, and her husband, **William T. Barnes**.

Blood was recognized for his efforts to improve the curriculum and practicum experiences offered so that students received what he calls "the best education in research and clinical information in the country."

Blood has a history of excellence in teaching. He received the 1982 Lilly Endowment Excellence in Teaching Fellowship to examine student stressors in the classroom.

The CES Faculty Achievement Award honors



A. Catharine Ross



Barbara J. Rolls



Susan J. Loeb



Gordon W. Blood



Doris "Tiz" M. Griffith

those who make unique contributions to both the college and the campus community. The award recognizes excellence in teaching, advising and service.

Since joining the faculty in 1981, Griffith has provided exemplary teaching and coaching for students and the community. She is noted as "single-handedly" building the campus's extensive intramural program and counseling students with academic and career decisions. In addition, she volunteers her time as tennis director of the county's senior citizen games.

Griffith is a former member of the U.S. Field Hockey Team and has been honored with elections into the Temple University and Pennsylvania Sports Halls of Fame. Twice she has been named Commonwealth Campus Athletic Conference Tennis Coach of the Year (1990, 1995).

American logistics society cites Smeal department chair

John C. Spychalski, chair of The Smeal College of Business Administration Department of Business Logistics, has been recognized as the "Outstanding Transportation/Logistics Executive in North America," by the American Society of Transportation and Logistics in Orlando, Fla. The award, based on seven criteria, recognized Spychalski for his contributions and innovations in the field of business logistics and transportation. In honoring him, the society cited Spychalski for his professional knowledge and career achievements, as well as his impact as a role model for ethical and professional conduct.

Spychalski has been chair of the logistics department since 1982. Under his leadership, the program has grown from fewer than 100 students to more than 500 at both the undergraduate and graduate levels. The department is recognized as one of the top transportation

and logistics departments in the nation.

In addition to his duties within the college, Spychalski has been a leader for numerous community and professional organizations. He is the author of numerous journal articles, proceedings papers and reviews on transportation policy and management issues. Spychalski holds a B.S. degree from St. Joseph's College, and M.B.A. and D.B.A. degrees from Indiana University.



John C. Spychalski

Fayette Campus acknowledges pursuit of excellence by four

Four Penn State Fayette Campus employees were recently honored for their pursuit of excellence in their respective positions on campus.

Gerardine Dorobish, acting head librarian, received the Public Service Excellence Award; **Josua Marvit**, biology instructor who moved to the Fayette Campus from the Penn State McKeesport Campus in 1991, was honored with the Teaching Excellence Award; **Evelyn B. Pluhar**, professor of philosophy, received the Scholarly Excellence Award; and **Barbara B. Solesky**, library assistant, was given the Support Service Excellence Award.

Research

Most single dad's don't fit TV stereotype

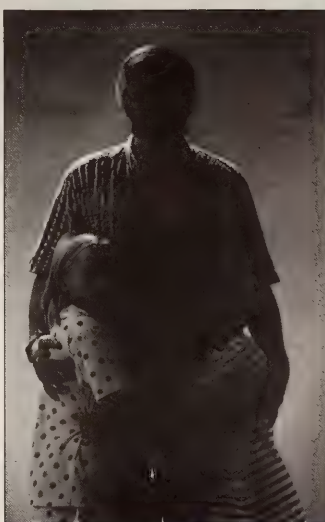
By PAUL A. BLAUM
Public Information

Contrary to television images from the 1960s and 1970s, the profile of the average single dad is not that of the divorced or widowed man raising his children alone.

"Only a quarter of the children are being brought up by single fathers who fit this stereotype," Daniel J. Eggebeen, associate professor of human development and family studies, said. "In reality, most children being raised by single dads live in households that contain an adult other than their father."

"With single-father families, the most common form of household arrangement is for children to live with their father's cohabiting partner," Eggebeen said. "This involves more than a third of all children in families being raised by the father alone. Of these children, about half are offspring of divorced fathers and half are offspring of fathers who never married."

Eggebeen is co-author of the paper, "Children in Single Father Families in Demographic Perspectives," presented at the annual meeting of the Population Association of America. His co-authors are Anastasia R. Snyder, graduate student with the Department of Human Development and Family Studies, and Wendy D. Manning, assistant professor of sociology at Bowling Green University in Ohio.



Of all children being raised by single fathers, about half are offspring of divorced fathers, and half are offspring of fathers who never married, according to Daniel J. Eggebeen, associate professor of human development and family studies.

Photo: Greg Grieco

"The proportion of children living in father-only families is currently 4 percent of children overall," Eggebeen said. "Nevertheless, that percentage is growing rapidly due to

demographic changes in the American family. By 1993, single-father families made up 15.5 percent of all single-parent families with children."

However, families

reared by the father alone — while one of the fastest growing family types — are increasingly less likely to be headed by a professionally stable man over 40 years old who is divorced or widowed. Single-father families resulting from widowhood have practically disappeared, while families headed by never-married fathers under 30 are gaining in number.

Among children being raised in single-father homes, those living with fathers who were married at one time are the best off economically and tend to have the best educated fathers.

"In contrast, children in multi-generational households or households containing more than one adult tend to have fathers with low incomes, comparatively little education and an erratic employment history," Eggebeen said.

Having single fathers with poor economic prospects is clearly a disadvantage for children raised by those fathers. To some degree, however, the ill effects of this are offset by the presence of other adults, which tends to raise overall household income and reduce the poverty rate for these families.

Support for this research was provided by Penn State's Population Research Institute.

The researchers used 1960-90 Public Use Microdata samples from the U.S. Census of Population.

Hobby-Eberly twin may be constructed in South Africa

A delegation from the Hobby-Eberly Telescope Project met with astronomers, engineers and officials in South Africa to discuss the possibility of collaboration on construction of a large astronomical telescope. The telescope would be patterned after the Hobby-Eberly Telescope (HET) currently nearing completion at McDonald Observatory in the Davis Mountains of remote west Texas.

The scope features the largest primary mirror in the world, 11 meters in diameter, and is made up of 91 hexagonal mirror segments, each 1 meter in size. In contrast to most telescopes, which track astronomical objects by moving the entire apparatus, the HET tracks moving only the instrument package above the primary mirror to follow the moving, reflected and focused image. This reduces the amount of telescope mass to be moved under precise control by more than 10 times.

While the HET cannot observe the entire sky, it can see more than 70 percent of it, track for up to three hours, and feed the captured light to instruments via an optical fiber, permitting very large and sensitive instruments to be housed in a room beneath the telescope. The HET is being constructed for about 15 percent of the cost of telescopes of similar size currently in operation or under construction at sites in Hawaii and Chile.

The telescope could be constructed in five years, using the majority of plans and designs already developed for the HET. Under consideration would be the South African Astronomical Observatory site, near Sutherland. Sharing of software, electronic designs and scientific instruments could provide substantial cost savings in operation as well as construction.

Abortion increases risk of breast cancer according to 23 studies

Having an induced abortion increases a woman's risk of developing breast cancer later in life by nearly one-third, according to a controversial review and statistical analysis of 23 studies of women with breast cancer, which appears in the October *Journal of Epidemiology and Community Health*, published by the British Medical Association.

The evidence is overwhelming," Vernon Chinnilli, co-author and associate director of the Center for Biostatistics and Epidemiology at The Hershey Medical Center. Eighteen out of 23 studies indicate increased risk in women who have had an induced abortion, he said. The meta-analysis

covers 23 separate studies with data on 25,967 women with breast cancer and 34,977 control patients without cancer.

"Our study documents a clear and significant link in worldwide published epidemiological research dating back to the first study in Japan in 1957," principal investigator Joel Brind, professor of endocrinology at Baruch College in New York City, said. "Yet most women are still in the dark: only three states require that women considering abortion be warned about breast cancer." The three states are Louisiana, Mississippi and Montana.

Brind has researched connections between sex hormones and human

disease for nearly 25 years. He said that pregnancies ending in early miscarriage — often called spontaneous abortions — do not expose women to high levels of estrogen. "Excess exposure to estrogen is involved in most known breast cancer risk factors," Brind said. "But in most pregnancies that end in miscarriage, estrogen levels never get off the ground, so breast cancer risk is not increased."

Abortion increases risk for young, childless women in two ways, according to Joan Summy-Long, professor of pharmacology at Hershey. "They lose the protection of a full-term pregnancy in addition to gaining the 30 percent risk increase from the abortion," she said.

"In normal pregnancies that do go to term, hormones secreted near the end of pregnancy modify the growth and vulnerability of breast cells, resulting in lower risk for women who have children," she said. Summy-Long is a neuroendocrinologist who studies hormonal regulation of milk secretion.

Indeed abortion already accounts for about 5,000 cases of breast cancer in the U.S. every year, according to the four authors of the study. The number of cases is expected to rise to more than 25,000 per year by the mid-21st century, as the initial growth of women expected to legal induced abortion in the 1970s continues to age.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Rene's list

Rene's List, the fund-raising effort that has helped to underwrite Penn State Lady Lion basketball on television, returns in 1996-97. **Katina Mack**, the former Lady Lion standout who recently joined the Nittany Lion Club staff, is spearheading the Rene's List III initiative, which will fund the televising of six games on WPSX and other over-the-air and cable stations this season. The scheduled TV games are: Nov. 26 vs. Seton Hall, 7:30 p.m.; Dec. 7 vs. George Washington, 2 p.m.; Jan. 17 vs. Illinois, 7:30 p.m.; Jan. 26 vs. Ohio State, 2 p.m.; Feb. 7 vs. Michigan, 7:30 p.m. and Feb. 23 vs. Wisconsin, 2 p.m. For information on joining Rene's List, call Mack at (412) 865-9462 or (800) 648-8269.

Going strong

Again this fall, the Penn State Alumni chapter is among the National Football League's largest. That's hardly surprising for a program that has sent more than 200 players to the professional ranks in the last 30 years. A new NFL survey revealed there were 32 former Nittany Lions on opening day rosters, ranking Penn State in a tie for No. 5 among all colleges and universities. Notre Dame (43) topped the list of active pro players followed by Ohio State (35), Miami (34), Tennessee (33) and Penn State Southern California and Florida State (32).

Top performers

One of the highlights of the local running season will be Sunday, Oct. 20, when the men's and women's cross country teams host the Penn State Open/National Invitational at the Penn State golf course.

For the Record

■ In the Sept. 26 issue of *Intercom*, the caption for the photograph of the sculpture, "Santa Barbara Wedge" should have said it could be found in the Donald W. Hamer Sculpture Garden outside the Palmer Museum of Art.

■ The Web address for the "Strategies for Successful Education of Health Care Providers" seminar listed on page 5 of the Oct. 3 *Intercom* should have read <http://www.cde.psu.edu/CeU/StrategiesForSuccess/>.

■ The name of The Smeal College of Business Administration's 1996 Alumni Fellow listed on page 9 of the Oct. 3 issue was misspelled. His name should have read Kim Yong Ju.

■ Nancy Herron, director of academic affairs for Penn State McKeesport Campus was misidentified in a story on the Commission for Women on page 5 of the Oct. 10 *Intercom*.



In memory

Bob Jozefick and Bill McNichol from the Office of Physical Plant prepare to install a memorial plaque outside of Beaver Stadium in honor of Norman H. Bedell, assistant vice president of OPP, who died last year. Memorial contributions made to the Campus Beautification Program in Bedell's name are helping the University to complete the original landscaping plan for around the marker wall, which was a gift from the Class of 1992. Lighting will be added to the site, in addition to the shrubs and trees. A formal dedication is planned for late spring when the dogwood trees are in bloom.

Photo: Greg Grieco

University to operate Bucks County facility

Penn State's efforts to create jobs and help re-use the former Naval Air Warfare Center (NAWC) in Warminster, Pa., will enter a new phase on Friday, Oct. 18. That's the day when the University receives the keys to NAWC's Inertial Navigation Facility (INFAC) from the Federal Lands Reuse Authority (FLRA) of Bucks County in a ceremony at 2 p.m. The FLRA will pass the keys along after receiving them from the Navy at the same event. The Navy formally decommissioned the NAWC on Sept. 30.

Penn State will operate the INFAC, with funding from the Navy, as a Navigation Research and Development Center under the direction of Herbert Seligman. The INFAC will continue to serve the Navy's needs but will also be available for the first time for non-Department of Defense use. INFAC is expected to become an economic development resource that serves as a magnet for new

industry and jobs. About 20 of INFAC's employees have been retained to operate the laboratory. Additional jobs could be created over the next five years as INFAC is available to non-DoD, federal agencies, regional agencies and industry sponsorship.

"The Navigation Center, which is the only laboratory of its type, is non-portable and, therefore, could not be moved with the rest of the Navy activity," Seligman said. "The facility is tied to the Warminster bedrock, which is the best in the country based on a national survey, and provides the most seismically stable and quiet environment for high tech navigation research. With the test piers directly bonded to bedrock, sensor calibration and testing can be achieved at accuracies and precisions unattainable anywhere else in the world."

PENNSTATE INTERCOM

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"End the Violence"

Student groups ask community support to help stop violence

Penn State's student counselors and students from the sexual assault counseling group SURVIVE launched a campaign Oct. 16 asking for the end of all types of violence on the University's campuses.

Representatives from the two groups unfurled a 150-foot banner, which will be displayed in the main lounge of the Hetzel Union Building on the University Park Campus through Friday. Sponsors are asking students, faculty and staff, administrators and the general public to add their names to the banner and sign cards pledging to help eliminate violence. They also are distributing navy blue and white buttons, stating, "End the Violence: In remembrance of Melanie Spalla and all other victims of violence in our community."

"We decided we needed to do this because we are tired of violence in our community. We, as a community, can stop this but not unless we feel as if we can. This campaign is designed to empower all members of our community to work

See "Peace" on page 3



Putting it in writing

Kathryn Woods signs her name as a supporter at the Oct. 16 kick off of the "End the Violence" campaign.

Photo: Greg Grieco

Enrollment figures reflect robust interest

Penn State's reputation for providing a top quality education to students resulted in another record-breaking enrollment year for the University.

The University's total enrollment for Fall 1996 is 77,518 — an increase of 721 students over the Fall 1995 total enrollment of 76,597 at 23 locations.

University Park enrollment increased by 217 students this fall, to a level of 39,782 students.

"The positive response of these students and their families demonstrates an appreciation of the value of a Penn State education," said President Graham B. Spanier. "U.S. News and World Report" this fall ranked Penn State as the ninth "most efficient" national university. In these times of concern over the affordability of a college education, this is an important indicator for families."

Penn State's enrollment reached its long-term target, which reflects efforts

to contain long-term enrollment growth. The University received 45,708 applications this year, an increase of 516 over the previous year, but admitted 591 fewer first-time freshmen than the year before. The overall enrollment increase can be attributed to strong retention rates and a high rate of students accepting offers of admission.

A record total of minority students are enrolled this year. Minority enrollment rose to 7,376 students, or slightly more than 9.5 percent of the total enrollment. This figure reflects an increase of 453 students, or 6.5 percent, over 1995 figures. Individual increases are reported in African American, Asian American, Hispanic American and Native American enrollments.

African American enrollment

See "Enrollment" on page 2

Planning council schedules series of open meetings

Members of the University Planning Council have started holding a series of several dozen open meetings this fall throughout University Park and the Penn State system.

The meetings, which began last week at Penn State Erie, The Behrend College, and with the Council of Academic Deans, are intended to provide a brief overview of the challenges and opportunities facing Penn State during the next five years. Members of the planning council are using the meetings to solicit input from University students, faculty and staff about how to continue to ensure the institution makes gains in quality, despite financial constraints that might otherwise impede that effort.

Strategic planning is being used as a process to achieve greater academic quality for Penn State.

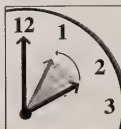
"President Spanier appointed the University Planning Council a year ago to help guide the University five-year strategic planning process," said John A. Brighton, executive vice-president and provost, and chair of the council.

"Planning for the future must be based on improving the institution," Brighton said. "We need to change to be more efficient and responsive."

"Social trends, institutional changes, technological advances and intellectual developments are making

See "Meetings" on page 3

Inside



Fall back

It's that time of year again. We return to Eastern Standard Time beginning this Sunday, Oct. 27. Be sure to turn your clock back one hour before you go to bed Saturday night, Oct. 26.



Research

Researchers are using DNA to determine the sex of skeletal remains. For details about this process, please see the story on page 15.

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Hispanic Heritage Month offers many events

Penn State is celebrating Hispanic Heritage Month and Puerto Rican Awareness Week with events scheduled into December, beginning with a public lecture by noted author and playwright **Cherrie Moraga** at 7 p.m. Monday, Oct. 27, in 112 Kern Building on the University Park Campus.

Moraga is co-editor of *This Bridge Called My Back*, and author of *Loving in the War Years*, which is a collection of essays and poetry. She is also author of several plays, including "Giving Up the Ghost," which will be performed at 5 p.m. Thursday, Oct. 31, in the Pavilion Theater.

Other events in the celebration over the next six weeks include films, plays, lectures, discussion groups, a food festival, a children's day, a college fair and a closing dinner at the Nittany Lion Inn on Friday, Dec. 6.

In addition to Moraga's talk on Oct. 27 and play on Oct. 31, other Hispanic Heritage events coming up in the next two weeks are:

- The Spanish Club Video Forum film, "Il Postino," at 7 p.m. Tuesday, Oct. 28, in the Lipcon Auditorium of the Palmer Museum of Art.

- Latin Jazz Radio Series at 1 p.m. Saturday, Oct. 26, and Saturday, Nov. 2, on WPSU radio.

- A lecture on "Hispanics in the Military," by Lt. Gen. Marquis, Col. Phillips and Cadet Rodas at 7 p.m.

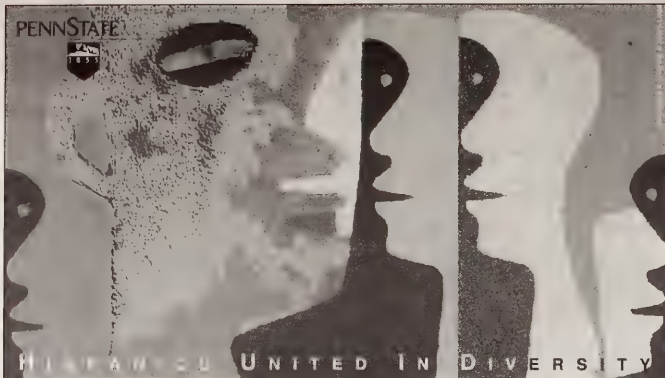


Illustration by Israel and Lucy Lopez

- Monday, Nov. 4, in the Paul Robeson Cultural Center.

- The Spanish Club Video Forum film "La Familia," at 7 p.m. Tuesday, Nov. 5, in the Lipcon Auditorium of the Palmer Museum of Art.

- The play "La Carreta" (The Oxcart) at 8 p.m. Wednesday, Nov. 6, in the Paul Robeson Cultural Center.

- The Spanish Club Video Forum

film "Latin Boys Go to Hell" at 7 p.m. Thursday, Nov. 7, in the Lipcon Auditorium of the Palmer Museum of Art.

- A slide show by **Javier Escudero**, "Land of 1,000 Colors," at 7 p.m. Friday, Nov. 8, in the Lipcon Auditorium.

These celebrations are sponsored by the Latino Caucus, the Puerto Rican Student Association, the Equal

Opportunity Planning Committee and the Office of the Vice Provost for Educational Equity, in cooperation with a number of colleges, institutes, departments and student clubs from across the University.

For more information, contact **Maria Schmidt** in the Multicultural Resource Center at (814) 865-1773.

Enrollment

continued from page 1

throughout the Penn State system is up by 132 students for an overall 4.8 percent increase.

"In this environment of growing competitiveness, Penn State continues to steadily improve the racial and ethnic diversity of our entering students," Spanier noted. "We will continue to seek progress because all of our students benefit from learning and living in a diverse population such as the one they will live in when they graduate."

At University Park, there are 33,162 undergraduate and 6,620 graduate students enrolled this fall. The Commonwealth Campuses report a total of 24,198 students, up by 641 or 2.7 percent.

"We are pleased that Penn State is considered one of the most attractive institutions in higher education," Spanier said. "For example, more high school seniors sent their SAT scores to Penn State this year (53,238) than to any other college in the country."

Penn State also remains popular among alumni, industry and donors. Penn State has the largest alumni

association in the nation; it ranks second in the nation in industry-sponsored research and is one of the largest research universities in the United States. Donations to Penn State in the fiscal year just ended reached an all-time high for the University.

"We have accomplished so much and caught the interest of so many while only receiving 17 percent of our budget from the state," Spanier said. On a per student basis, Penn State receives less state support than any other state-owned or state-related college in Pennsylvania.

"Penn State is consistently ranked by outside organizations as one of the most efficiently operated universities in the nation and as an institution that provides an Ivy League education at state school prices.

"And unlike other colleges in Pennsylvania, we have an outreach office located in every county of the state—we are integrally involved in creating and saving jobs throughout the Commonwealth as part of our unique land-grant university status," Spanier said.

MINORITY ENROLLMENT

	Fall 1996	Fall 1995	Percent change
Native American	148	118	25.4
Asian/Pacific Islander	2,879	2,669	7.9
African American	2,864	2,732	4.8
Hispanic	1,485	1,404	5.8
TOTAL MINORITIES	7,376	6,923	6.5

QUICK BREAKDOWN OF TOTALS BY LOCATION (ALL MINORITIES)

	Fall 1996	Fall 1995	Percent change
University Park	4,177	3,911	6.8
Erie	208	250	-16.8
Harrisburg	248	243	2.1
Hershey	135	115	17.4
Great Valley	135	142	-4.9
Commonwealth Campuses	2,281	2,071	10.1
Penn College	192	191	.5
Total	7,376	6,923	6.5

1996 ENROLLMENT by location

University Park*	39,782
Erie	3,207
Harrisburg	3,417
Great Valley	1,392
Hershey	568
Abington-Ogontz	3,262
Allentown	610
Altoona	3,475
Beaver	786
Berks	1,813
Delaware County	1,567
DuBois	1,035
Fayette	931
Hazleton	1,391
McKeesport	892
Mont Alto	1,205
New Kensington	905
Schuykill	988
Shenango	1,033
Wilkes-Barre	807
Worthington Scranton	1,419
York	2,079
Penn College	4,754
TOTAL	77,318

*Note: Enrollments at continuing education centers, by national reporting conventions, are reported with the University Park Campus.

Source for these graphics: The Office of Budget and Resource Analysis

Peace

continued from page 1

together and stop all types of violence in our community," said Kathryn Woods, Student Counselors program coordinator and member of SURVIVE. This campaign will serve as a way for students and community members to voice their support of a violence-free community.

"All types of violence are included in the campaign — sexual assault, gay bashing, racial and ethnic violence and intimidation, relationship violence, alcohol-related violence, assault and random violence," said Megan Dolbin, Student Counselors program

coordinator and member of SURVIVE.

One of the functions of the campaign is to make faculty, staff, students and community members more aware of the many types of violence that occur in the University community. By including all faculty, staff and students in the campaign, the entire Penn State community will have the opportunity to become involved and show its support.

Sign here

Student Dipkesh DeChoudhury helps unfurl the 150-foot banner which University community members are being asked to sign to take a stand against violence.

Photo: Greg Grieco



Meetings

continued from page 1

a new world for higher education. We must lead change rather than be driven by it," he said.

These changes come at a time when the public is increasingly skeptical about higher education and rising tuition costs. The public continues to be critical about the issue of faculty workload and tenure and is demanding more accountability, while at the same time reluctant to provide more funds, according to Brighton.

The University Planning Council is reviewing every aspect of Penn State and its budget and will make recommendations that will help the institution continue to support quality programs, increase support of programs with great potential and redirect resources from functions that may be less critical.

...current fiscal projections indicate that the University may be facing a gap of \$12 million per year By the fifth year, that could mean a \$60 million shortfall in funds.

"The relatively flat funding from the Commonwealth in recent years coupled with projected inflation and increases in costs to operate Penn State indicate a gap between income and planned expenses for the next five years," Brighton said. "We intend to use strategic planning to reposition the University for the challenging period ahead."

"That repositioning is occurring at a time of relative strength for the University," he said. "Penn State experienced an increase in enrollment this year and we again received more SAT scores from high school seniors than any other college in the nation."

Brighton also noted that Penn State is one of the leading research institutions in the nation and has vast alumni support.

"Penn State is moving forward on all fronts. However, support from the state for our University has traditionally been low. It is lower than any of the state-owned and state-related universities in Pennsylvania and it is lower than any other school in the Big Ten," Brighton said.

Taking into account inflation, appropriate salary and benefit increases and other projected costs, cur-

Background info

If you want more background on the University Planning Council, you can find details of the past year's work and a list of members at the UPC Web site, located on the University Relations Web page at <http://www.ur.psu.edu> under the Office of the President link.

rent fiscal projections indicate that the University may be facing a gap of \$12 million per year in available funds versus planned expenditures in each of the next five years. By the fifth year, that could mean a \$60 million shortfall in funds.

"It is important that we develop a plan that will focus on our drive for quality and support those aspects of the University that will continue to build Penn State's national reputation and serve our students and the citizens of the Commonwealth," he said. "At the same time, we must remain good stewards of the fiscal resources available to us."

During its research over the past year, the planning council has identified some qualities of the University that it feels will define Penn State 10 years in the future. They include:

Penn State in 2006

- Lead other universities in the integration of teaching, research and service.
- Strive for academic quality as our highest priority; be the "first choice" university of top students, faculty and staff.
- Function as one university; encourage seamless transitions between campuses and between degree programs.
- Change the balance of graduate to undergraduate students.
- Develop world-class teachers and learners.
- Encourage active and collaborative learning.
- Strengthen interdisciplinary collaboration.
- Increase efficiency of the university; streamline processes.
- Encourage collaboration with business, industry, state government, primary and secondary schools.
- Strengthen outreach and cooperative extension.
- Create a welcoming and accepting campus environment for all; develop behaviors of civility and respect in the University community.
- Increase participation of under-represented groups.
- Internationalize the curriculum; increase number of international students and undergraduate students who study abroad.
- Strengthen the philanthropic tradition.

Open Hearings

College Sessions:

Arts and Architecture and University Libraries	Nov. 11, 4-5 p.m., Palmer Union Auditorium
Communications	Nov. 22, 3-4 p.m., Carnegie Cinema
Education	Nov. 13, 2:30-3:20 p.m., 109 Chambers Building
Engineering	Nov. 13, 10-11 a.m., 256 Hammond Building
H & HD	Oct. 30, 3:45-5 p.m., 301 HUB

Meetings for colleges not listed here are in the process of being arranged.

Open Sessions

Kern	Nov. 7, 2-3 p.m., 112 Kern Building
HUB	TBA
OPP	Nov. 22, 9-10 a.m., 105 Physical Plant
Schreyer Institute	TBA
Findlay Dining Commons	Nov. 14, (Shields Bldg.), 1-2 p.m., Monterey Rm.

Campus Visits

Harrisburg	Nov. 26, In process
Abington-Gorgonz	TBA
Berks	TBA
Alloua	TBA
Great Valley	TBA
Hershey Medical Center	TBA

University Committees

Faculty Senate Planning Committee	TBA
Faculty Advisory Committee	TBA
Academic Leadership Forum	Nov. 7, 8 a.m. to 1:30 p.m., Scanticon
Council of Academic Deans	TBA
Exec. Roundtable-Students	TBA
Commonwealth College	TBA

Times and places for the open meetings will be listed in Intercom as they are scheduled. In addition to these open meetings, the planning council is interested in input from students, faculty, staff and others throughout this planning process. Comments can be submitted to the council by e-mail at the following address: response@psu.edu.

■ Use information technology to expand distance education and explore potential for a "world campus."

LECTURES

Talk to address teen pregnancy prevention

Every 26 seconds an adolescent girl becomes pregnant in the United States and every 56 seconds another adolescent girl gives birth, according to figures from the U.S. Department of Health.

A two-day conference on Nov. 12-13 titled "Teen Pregnancy: An Issue for Everyone," will be offered at The Penn State Lection for community leaders, women's center employees, crisis pregnancy counselors, parents, teachers, coaches, school officials, nurses, physicians and social service employees.

The conference is intended to recognize the causes and effects of teen pregnancy; cite changes required to reduce the incidence of teen pregnancy; and discuss the responsibilities of teen pregnancy. It will explore the messages society gives to teens and compare the meaning of sexual involvement and pregnancy on teens living in rural and urban areas and of different ages and ethnic backgrounds. Speakers will address what cultural influences should be considered when developing and delivering programs and providing support.

Laurie S. Zabin will be the keynote speaker for the conference. Zabin began her work in family planning in the 1950s as a volunteer. Today she is nationally recognized for her research methodology,

her knowledge of programs for adolescents, her drive for understanding the causes and effects of teen pregnancy and her passion to make change happen. Zabin is a professor of population studies at Johns Hopkins University.

Featured presenters include: **Donna Butts**, executive director of The National Organization of Adolescent Pregnancy Prevention Program in Washington, D.C.; **Patrick J. Sheeran**, acting director of the Office of Adolescent Pregnancy Programs, a division of the U.S. Department of Health and Human Services; and others.

There also will be a panel presentation by researchers.

The \$125 fee (\$75 student fee) covers all instruction, course notes, program materials, refreshment breaks and lunches for two days. To receive a brochure, call (800) PSU-TODAY, e-mail ConferenceInfo10@cds.psu.edu or visit the Web site at <http://www.cds.psu.edu/cr/teenpregnancy/>.

The conference is a continuing and distance education service of the College of Health and Human Development, Department of Biobehavioral Health and Human Development and Department of Family Studies, and is co-sponsored by the Pennsylvania Coalition to Prevent Teen Pregnancy and funded in part by Pharmacia and Upjohn.

Tax reform, tax simplicity differences to be addressed

Tax reform is a popular goal to advocate, but an equally difficult goal to achieve. Proposals advanced during the 1996 presidential campaign include the flat tax, tax credits for college tuition and tax relief for families with children.

The Nov. 12 installment of the Current Issues in Business lecture series at the Penn State Harrisburg, Eastgate Center will address the contradictions between tax reform and tax simplicity, provide a review of obstacles to 1996 campaign proposals and assess the probability of the proposed reforms being adopted.

The forum's presenter, **Jean Harris**, is associate professor of accounting in the Penn State Harrisburg School of Business Administration. Harris is a licensed CPA in Pennsylvania and a certified government financial manager. Approaching tax policy from a cross-disciplinary background, she has done research in accounting, taxation, public policy and economics.

The series, sponsored by the Penn State Harrisburg School of Business Administration, is free to the public. For information or to make a reservation, call (717) 772-3590.

Former president of South Africa to speak

F. W. de Klerk, former president of South Africa, will speak about the end of apartheid in that country at 8 p.m. Tuesday, Oct. 29, in The Bryce Jordan Center on the University Park Campus. De Klerk was a co-recipient of the 1993 Nobel Peace Prize, with current South African President Nelson Mandela, for the leading role he played in the democratization of South Africa.

De Klerk will hold a news conference on Tuesday, Oct. 29, at 6:50 p.m. in the Jordan Center ticket office. Admission to the lecture is free, but tickets will be required. They will be available in Room 225 of the Hetzel Union Building.

As South Africa's first "television president," de Klerk developed a friendlier, more open and accessible relationship with the media than any of his predecessors. He was widely praised for his efforts to keep South Africa on the negotiations path during its transition into a nonracial democracy.

In an interview with *Time* magazine after being named *Time's* Man of the Year in 1993 (along with Mandela, Yitzhak Rabin and Yasser Arafat), de Klerk said he hoped history would recognize that he, "together with all those who supported me, have shown courage, integrity, honesty at the moment of truth in our history. That we took the right turn."

After many years of public service, de Klerk was unanimously elected

president of South Africa in 1989, after former President P. W. Botha resigned because of poor health.

In February 1990, de Klerk made several announcements that would fundamentally change South Africa and accelerate the elimination of apartheid. He announced that Mandela would be released from prison and that many organizations would be "unbanned," including the African National Congress and the South African Communist Party. He also introduced a set of initiatives that led directly to South Africa's first-ever universal-franchise election in April 1994.

De Klerk now serves as one of two executive deputy presidents in Mandela's Government of National Unity. He was named to the position after Mandela was elected president, because of the number of votes won by the National Party, which he still heads.

He earned bachelor of arts and bachelor of law degrees from the Potchefstroom University for Higher Christian Education, where he was active in student affairs.

De Klerk's lecture, part of the Distinguished Speakers Series, is sponsored by the Programming Coordination Board and co-sponsored by the Take a Stand Coalition, the Undergraduate Student Government, the Association of Residence Hall Students and the African Students Associations.

Evolutionary genetics to be topic of Chemerda Lectures

Laurence D. Hurst, the Horace Le Marquand and Dudley Bigg Research Fellow of the Royal Society of London, will give the 1996 John M. Chemerda Lectures in Science from Oct. 28 to 31 at University Park.

He is well known for spearheading work in the area of conflicts that occur within genomes and for the relevance such conflicts might have for the evolution of genetic systems. He has published on many of the major topics in evolutionary genetics.

Hurst will give a series of lectures on the theme of "The Evolutionary Genetics of Darwinian Genomics," including: "The Evolutionary Genetics of Darwinian Genomics" on Monday, Oct. 28, at 7:30 p.m. in 104 Thomas Building; "The Evolution of Sex and Some of What That Entails" on Tuesday, Oct. 29, at 7:30 p.m. in 101 Thomas Building; "Toward a Darwinian Genomics I" on Wednesday, Oct. 30, at 3 p.m. in 104 Thomas Building; and "Toward a Darwinian Genomics II" on Thursday, Oct. 31, at

4 p.m. in 201 Thomas Building.

In addition to his position with the Royal Society of London, Hurst is a member of the Department of Genetics at the University of Cambridge, a senior research fellow at Churchill College in Cambridge and a professional fellow of the Institute for Advanced Study in Budapest. In January 1997, he will become the professor of evolutionary genetics at The Centre for Mathematical Biology in the Department of Biology and Biochemistry at the University of Bath in England.

After earning his bachelor's degree in zoology at Cambridge University in 1987, Hurst spent one year at Harvard University with Steven J. Gould under the auspices of the Henry Fellowship. Hurst then earned his doctoral degree at the University of Oxford Department of Zoology. After spending two years at The Queen's College in Oxford as a Browne Research Fellow, he moved to his current position.

More Lectures

Evening of poetry planned at Fayette Campus Oct. 30

Samuel Hazo, a distinguished international and Pennsylvania poet, will present an evening of his poetry at 7 p.m. Wednesday, Oct. 30, in the J. Lewis Williams Building Auditorium on the Penn State Fayette Campus. The presentation is free to the public, but reservations are required.

Hazo is the author of more than 30 books and was selected as the first "Poet of Pennsylvania" in 1993. He is a professor in the English department at Duquesne University, where he also is director and founder of the International Poetry Forum.

His most recent book is *The Holy Surprise of Right Now: Selected and New Poems*. Reservations may be made by contacting Fatty Zebrasky at (412) 430-4125.

Canada's health care system is topic of Nov. 1 lecture

J. Bruce Davis, director of Health Insurance, Health Canada, will speak on Canada's health care system from 3:30 to 5 p.m. Friday, Nov. 1, in 101 East Henderson Building on the University Park Campus.

Davis is responsible for administering the Canada Health Act (1984). His division monitors the compliance of these insurance plans to the criteria and conditions of the Canada Health Act, prepares replies to correspondence of the federal Minister of Health on health insurance and responds to inquiries on health insurance and the health care system. Davis received his Ph.D. in business administration in 1974 from Penn State.

His visit and presentation are sponsored by the Department of Health Policy and Administration and the MHA/MBA program.

Religion in the Global World: topic of Nov. 6 presentation

Conrad Cherry of Indiana University-Purdue University at Indianapolis will speak on "The Role of Religion in the Global World" at 7:30 p.m. Wednesday, Nov. 6, in 101 Kern Building on the University Park Campus. Faculty respondent will be **Anne Carver Rose**, associate professor of history and religious studies. This Values in the Community lecture is sponsored by The Center For Ethics and Religious Affairs.

Biology professor to give Nov. 6 talk for STS series

Christopher F. Uhl, professor of biology, will speak on "Sustainability at Penn State" at noon Nov. 6, in 109 Walker Building on the University Park Campus as part of the Science Technology and Society Fall Colloquium Series.

The next speaker will be **Jonathan Plaut**, visiting professor of environment and public policy and presidential appointee to the NHTA Environmental Commission. Plaut will discuss "Industrial Environmental Advocacy and Ethical Decision Making" on Nov. 13. Following that lecture on Nov. 20 will be **Herbert Cole**, professor of agricultural sciences. Cole's talk is titled "Sustainable Agriculture in Pennsylvania: The Sanrue Initiative."

For more information, contact the STS program office at (814) 865-9951.



Peace and quiet

This area of lawn between the north end of Henderson Building and McAllister Building on the University Park Campus will be the site of a Peace Garden—a gift from the Class of 1997.

Photo: Greg Grieco

Peace Garden is 1997 class gift

Penn State's Class of 1997 has voted to create a garden that will celebrate a peaceful and civil University community as its class gift.

In voting held last week, a majority of the ballots cast favored the "Peace Garden" over two other possible class gifts. The garden will be constructed on the lawn between the north end of Henderson Building and nearby McAllister Building, just to the west of the Hetzel Union Building lawn on the University Park Campus.

The garden's design will be chosen through an open competition among Penn State faculty, staff and students who have skills in landscape architecture. Plans could include stone walkways, floral designs, fountains, benches and lighting.

"Selecting this gift shows that seniors want to help beautify central campus and put an otherwise overlooked space to good use," said **Chris Weideman**, chair of the senior class gift committee. "Creating the Peace Garden will help preserve open space and give students, faculty and staff an out-of-the-way spot for study and conversation without all the pedestrian traffic of the malls."

Nearly \$11,000 for construction of the garden has already been raised through members of the senior class pledging the balance of their \$50 general deposit. The general deposit is held during a student's undergraduate years to cover unforeseen expenses, fees and emergency costs.

"Although most of a class gift's funds typically come from the general deposits, the gift committee is also planning other fund-raising activities designed to support the Peace Garden project," said Weideman. "Some of the things we have in mind are T-shirt sales and special events that will be announced in the near future."

The other gift options presented to the seniors involved a scholarship endowment and interactive information technology to help students prepare to study overseas in the Education Abroad Program, and a fund to construct fountains, or outdoor sculpted reliefs, depicting people of different cultures as an adornment for the new Paul Robeson Cultural Center.

Ideas for the class gift were accepted from late August until Sept. 20. Approximately 35 people submitted ideas, which resulted in 26 distinct proposals being brought before the gift selection committee, consisting of 16 seniors and members of the

Past gifts

Here is a small sampling of past class gifts, including all gifts given this decade.

- 1861 Portrait of Evan Pugh, first president. This was the first class gift.
- 1903 Gateway at Atherton Street-Pollock Road entrance to campus.
- 1904 Clock for Old Main Tower.
- 1913 Old Main stone terrace and steps.
- 1915 Stone retaining wall on front campus (College Avenue from Allen Street to Pugh Street).
- 1916 Memorial gateway at main entrance (College Avenue and Allen Street).
- 1925 Memorial gateway at Pugh Street.
- 1937 Westminster chimes carillon unit for Old Main tower.
- 1940 Nittany Lion shrine.
- 1958 Student AM radio station.
- 1960 Entrance gate to Beaver Stadium.
- 1971 Renaissance Fund.
- 1978 Antique bronze ball for football stadium.
- 1988 Computerized interview training center for Career Development and Placement Services.
- 1989 Outdoor study lounge adjacent to Pattee Library.
- 1990 Creamery courtyard.
- 1991 Cafe-style seating area on the west side of the Creamery.
- 1992 Official Penn State Landmark sign.
- 1993 Renovate and expand urgent health-care facilities at Ritneron Health Center.
- 1994 Extended-hours room at Pattee Library.
- 1995 Foundry Park.
- 1996 Elms endowment.

faculty, staff and administration. The committee narrowed the options to the final three gift ideas on the ballot.

Senior class gifts have been a Penn State tradition since 1861, and include such landmarks as the Old Main clock tower and the Nittany Lion Shrine. Last year's class has raised nearly \$115,000 for an endowment to help preserve the University Park Campus elm trees.

■ Plan for the Commonwealth update

Brighton outlines principles for CES change

As Penn State plans for eventual implementation of the plan to redesign its campuses, a number of important questions have been raised about the structure of the University in the coming years.

In a recent meeting with the Steering Committee for the Transition — Commonwealth Educational System, John A. Brighton, executive vice president and provost, outlined the overarching guiding principles for the changes in the structure and processes of CES.

There are five major components to the principles for change, including:

Overall University structure

Penn State is one university with several colleges. We have one governing board, one president, one faculty and one central administration. All college deans report to one University provost. Academic programs and courses are approved by one Faculty Senate. Degrees offered by all colleges are Penn State degrees.

Penn State must retain its character as one university while providing reasonable flexibility where differences and special needs and opportunities warrant.

Curriculum and courses

Every effort should be made for curricular consistency among the campuses.

The first two years of the baccalaureate programs should be compatible to allow easy flow among campuses during this period. Upper division courses also should be consistent, with some allowances for course differences in special areas where local needs and opportunities call for distinction. The principles apply to Penn State Erie, The Behrend College, and Penn State Harrisburg as well.

All new courses and changes in courses and programs will go through the Faculty Senate for review for consistency, compatibility and appropriateness. A common University course numbering system will be followed. Cooperative efforts should be put in place for consultation, revision and review as needed. Central leadership will be provided by John Cahir and Rodney Erickson.

For more information

Groups and individuals who have additional questions are encouraged to contact the following:

Curriculum and programs

John Cahir, vice provost and dean for Undergraduate Education
 (814) 863-1864

Rodney Erickson, dean of the Graduate School
 (814) 865-2516

Student recruitment and admissions

John Romano, vice provost and dean for Enrollment Management and Administration
 (814) 863-4774

Faculty Issues

Robert Secor, vice provost for Academic Affairs and Personnel
 (814) 863-7494

Faculty appointments

Faculty appointments will be made in each college including the new colleges (Abington, Altoona, Berks/Lehigh Valley and the Commonwealth College) with the responsibility for personnel residing with the college dean.

Appointments made after July 1, 1997, will be made to the college where the faculty resides. Faculty appointed before July 1, 1997, will have a choice as to the locus of their tenure and promotion. Those faculty at the current CES campuses who choose to keep their tenure home in a University Park college also will be considered full-fledged members of the campus at which they are located.

All faculty, regardless of college home, will be considered a part of the University faculty in their discipline (e.g. English faculty at Penn State). Each campus should expect faculty at that location to

work together for University-wide and student needs and interests. Central leadership will be provided by Robert Secor.

Recruitment and admissions of students

Student recruiting and admissions will continue to be overseen through the Office of the Vice Provost and Dean for Enrollment Management and Administration. This also will be a shared responsibility and a collaborative effort among all campuses and colleges. Central leadership will be provided by John Romano.

Budget

In the transition from the current CES structure to the new college structure, certain guiding principles must be established with respect to the budget.

First, the budgets for the four new colleges will be established from within the current overall budget for the CES. (Great Valley, which has been separated from CES and now has administrative reporting lines to the Graduate School, will have its budget modified separately.) Additional money will not be allocated to support the new college structure in the 1997-98 budget, except that which may come due to enrollment increases.

It is expected that the four new colleges, as well as Penn State Erie and Penn State Harrisburg, will be on a budget model that is related principally to enrollments. It is also expected that colleges and departments at University Park will continue to have certain responsibilities to support the campuses or be prepared to return existing support dollars to central administration for reallocation to the new colleges. Central leadership on this issue will be provided by Gary Schultz, P. Richard Althouse and Stephen Curley.

"This information is provided as general overall guidance for the transition," Brighton said. "There are obviously several issues that remain to be worked out as we go through the transition."

Nominations sought for alumni service award

The Penn State Alumni Association is seeking nominations for the 1997 Philip Mitchell Alumni Service Award, which is given each year to an alumnus, alumna or friend of the University who has contributed generously to the enhancement, growth, development and improvement of Penn State.

The award consists of certificate, a plaque prominently displayed in the Alumni Lounge with the name of each year's recipient and a cash gift to the University for a purpose designated by the recipient.

No current Board of Trustees members or distinguished alumni of the University are eligible. Nominations may be sent to **Rayna Wendell**, The Recognition Program, Penn State Alumni Association, 105 Old Main, University Park, Pa. 16802. The deadline for nominations is Nov. 30.

For more information or a copy of the nomination form, contact Wendell at (814) 865-6517.

Company president chosen as Alumni Fellow for Penn State Erie

Robert D. Metzgar, president and owner of Warren-based North Penn Pipe & Supply Inc. and an alumnus of Penn State Erie, The Behrend College, was honored as the college's 1996 Alumni Fellow.

Metzgar attended Penn State-Behrend in 1956 and '57. He completed his studies at University Park, graduating with a business degree in 1960. After beginning his career with West Penn Power Co. in Latrobe, Pa., he returned to his hometown of Warren, Pa., in 1966 as supervisor for scheduling for GTE Sylvania. He was plant manager when he left GTE in 1977 to purchase North Penn Pipe & Supply Inc.

Metzgar's civic organization memberships have included the Warren County Chamber of Commerce, the Warren County Industrial Development Authority and the Boy Scouts of Ameri-

ca. He serves on the PNC Bank Advisory Board and is treasurer of the Pennsylvania Oil and Gas Association. He is charter president of the Tri City Chapter of the American Production and Inventory Control Society.

Metzgar was named to the Penn State-Behrend Council of Fellows in the spring of 1994. In May of 1995, Gov. Tom Ridge appointed him to the Penn State Board of Trustees. He also is a life member of the Penn State Alumni Association, the Nittany Lion Club and the President's Club.

The Alumni Fellow Award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

News in Brief

Under the stars

The Penn State Astronomy Club will hold an Astronomy Open House from 8 to 11 p.m. Friday, Oct. 25, on the roof of Davey Lab. (In the event of cloudy skies, observations will be attempted on Saturday evening.)

Featured objects for the evening will include the full moon and the planets Jupiter and Saturn. Other celestial objects may also be shown, depending on sky conditions.

A planetarium show will be held in 541 Davey Lab. The open house is free, and everyone is welcome to join the club for a relaxing evening under the stars.

"A Walk Through the Park"

As part of the campaign to raise awareness of breast cancer during the month of October, Circle K is sponsoring "A Walk Through the Park" on Saturday, Oct. 26. Registration for the event begins at 12:30 p.m. in Spring Creek Park, Pavilion 1. The walk, which is a three-mile trek, begins at 1 p.m. Registration is \$10 for non-students and \$5 for students. Anyone under the age of 16 may walk for free. Proceeds from the event benefit the Centre County Breast Cancer Coalition. For more information about the event, call the American Cancer Society at 238-8908.

Luncheon/auction set

A luncheon/auction to benefit Centre County United Way will be held from 11 a.m. to 2 p.m. Thursday, Oct. 31, in the Paul Robeson Center. The event, sponsored by Student Affairs, will feature specialties of the house from members of the Student Affairs and Penn State Catering staffs.

Items to be auctioned, including a 1984 Buick Skylark, are on display on the first floor of the Hetzel Union Building through Oct. 31. Other items include: *Gratias! Moments in Football History*, signed by John Cappelletti and Joe Paterno; brunch for two at the Nittany Lion Inn; brunch for two at The Penn State Scanticon; Penn State football and basketball memorabilia; dinner for two at Spats Cafe; a catered dinner party for six in your home; a housecleaning certificate; and more.

Silent bids may be made at the HUB deck. Final bidding will take place at 12:30 p.m. during the Oct. 31 luncheon in the Paul Robeson Center. You must be present to win. Cash and checks will be accepted.

Tickets for this event are available from your United Way representative for \$5.

Health promotion

Relax and Enjoy Series

During this four-week series, learn to manage everyday stress through the use of meditation, relaxation therapy and gentle stretching. Meets Tuesdays, Nov. 5 through 26, from 12-1 p.m. in H10 Henderson Building (The

Living Center). Cost is \$10, reimbursable to HMO participants. To register, contact Jan Hawbaker at 865-3085 or jgh3@psu.edu.

Stone Valley activities

Enjoy a hayride through the scenic woodlands of the Stone Valley Recreation Area. This program, which runs from April through November, offers a variety of facility, food and activity options to meet group needs. For arrangements, contact the park office at 863-0762.

Nausea study seeks volunteers

If you experienced nausea/vomiting during or after chemotherapy in the past and must have additional chemotherapy treatment, you might be interested in volunteering for a study by the Department of Psychology/Psychobiology.

Researchers have discovered that it is possible to reduce the symptoms of car sickness (motion sickness). Since there are some similar mechanisms that cause the nausea of motion sickness and chemotherapy, researchers would like to investigate if the procedure might help people with other kinds of nausea.

Participating in this study will not interfere with your medical treatment in any way. This study has been approved by Penn State's Use of Human Subjects Committee and will be directed by Robert M. Stern in the Department of Psychology.

If you would like more information or to schedule an appointment, please call Stern at one of the following numbers: 865-1712, or evenings and weekends: 238-7063.

Children needed for study

Pain in the upper abdomen, nausea, lack of appetite, loose stools and constipation in children: these complaints are often reasons for referral to pediatricians. Nearly 10 percent of school-children suffer from recurrent abdominal pain. Literature reports a peak of incidence at five years in both sexes and a further peak at puberty in girls.

To obtain additional information about it, the Department of Psychology is looking for children (ages 3-9) with and without gastrointestinal problems or a specific diagnosis to participate in a study. The study does not hurt and there is no risk to the health of the child. He or she will receive a toy for taking part.

The research is being conducted under the supervision of Robert M. Stern, professor of psychology, and has been approved by the Penn State Use of Human Subjects Committee.

Parental permission for participation is required. For further details, please contact Claudia G. Lederer, Department of Psychology, 535 Moore Building at 865-1725 or 238-4659.



Enjoying the weather

The weather was still nice enough for the benches near the HUB lawn on the University Park Campus to be visited, and that's just what Allen Scott, left, a student in Agricultural Sciences, and Kathy Couch did recently. Scott was studying between classes. Couch caught up on some reading while waiting for her husband, Steven, a sociology faculty member at the Penn State Schuylkill Campus, who was attending meetings at the University Park Campus.

Photo: Andrea Hurley

Faculty/Staff Alerts

Intercom online readership survey

In an effort to gauge how many readers are viewing *Intercom* through its Web site and as part of an ongoing process to evaluate the content, design and readership of the *Intercom*, the Department of Public Information is conducting an online survey in which readers are asked to answer a short series of questions. Individuals who have read the *Intercom* online in the past, can go directly to the survey at URL

<http://www.ur.psu.edu/intercom/survey/intercom.html>. The information you provide will be kept confidential and will be helpful in guiding the *Intercom* staff in its work.

See 'em on TV

Pennsylvania candidates for state assembly, state Senate and U.S. Congress have been offered free air time on WPSX-TV to discuss campaign issues and ideas so that voters can make an informed choice when they go to the polls next month. State candidates will receive 10 minutes each; U.S. Congressional candidates will receive 15 minutes each. WPSX-TV will devote two full afternoons Oct. 25 and 26 to air "Your Candidates: In Their Own Words," beginning at noon each day. WPSU-FM will broadcast the audio portion of the candidates' appearances at 7-8 p.m. Tuesday

through Friday, Oct. 29 - Nov. 1, and Monday, Nov. 4.

Time was offered to 51 candidates in 27 races in central and northern Pennsylvania; 36 individuals representing 22 races have accepted the invitation. For a broadcast schedule of when a particular candidate will appear, contact WPSX at (814) 865-3333. WPSU-FM will air the 12 races within the WPSU broadcast area.

Right-to-Know sessions planned

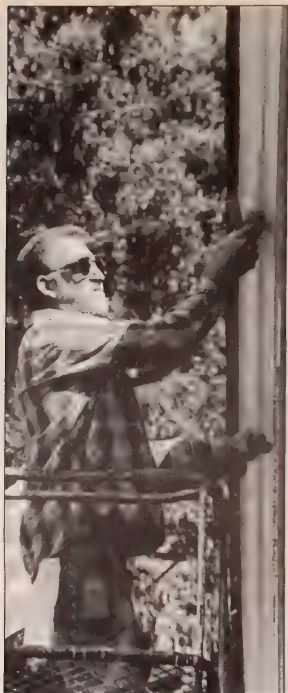
The Department of Environmental Health and Safety is offering the following "right-to-know" training sessions on Thursdays during the coming months for new employees. Participants should report to Room 6, Eisenhower Parking Deck on the University Park Campus.

Date	Time
Nov. 14	9 a.m.
Dec. 19	1:30 p.m.
Jan. 16	9 a.m.
Feb. 20	1:30 p.m.
March 20	9 a.m.
April 17	1:30 p.m.
May 22	9 a.m.
June 19	1:30 p.m.
July 17	9 a.m.
Aug. 21	1:30 p.m.
Sept. 18	9 a.m.
Oct. 16	1:30 p.m.
Nov. 20	9 a.m.
Dec. 18	1:30 p.m.

A small taste of life

Photography has come a long way since the world's oldest existing photo was taken in 1827 by Nicéphore Niépce, but its appeal has never wavered. Capturing a moment in time and allowing it to be relived is a large part of photography's allure.

In a recent assignment, budding photojournalists in the classes of **Jock Lauter**, associate professor of journalism, and **Steve Manuel**, instructor in communications, attempted to capture a typical day in the life of those who live and work on the University Park Campus. The seven photographs found on these two pages are the result of that experience, in which students took a closer look at a small slice of the world around them and some of the people in that world.



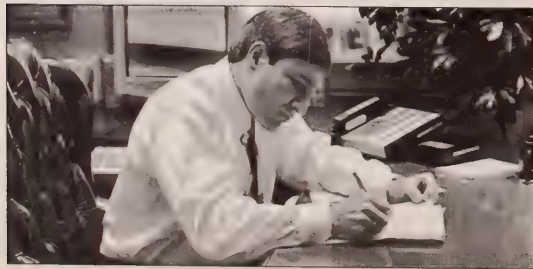
Clockwise, from top left:

Men at work: Ed Kaiser of the Office of Physical Plant works on the trim on Eisenhower Chapel. Photo by Kanova L. Johnson.

Hitting the notes: June Miller, associate professor of music, instructs Holly Anderson, a junior majoring in music education, how to play the electric organ. Photo by Heidi Yedinak.

Rock the Vote: Stacey Grove, a junior majoring in political science, hands out voter registration forms in front of Willard Building. Grove is a member of Rock the Vote, a national organization formed to register young voters. Photo by R. Scott Rappold.

Catching up: President Graham B. Spanier does some paperwork between appointments that fill his calendar. On this day, he spent his morning at Penn State Shenango Campus and was to meet a colleague at University Park in the afternoon. Photo by Michelle K. Bauer.





"United is the Way," the theme for the United Way Campaign at University Park, truly represents the spirit of the United Way effort at all of our Penn State locations throughout the Commonwealth. By working together, we can best support those who need help and also enhance the quality of life in our communities.

Enthusiasm for the United Way—both in terms of financial support and assistance provided by volunteers at the social service agencies—has grown tremendously. Still, I'm saddened that some don't see the importance in supporting this critical endeavor.

As citizens, we all have a responsibility and a moral obligation to help our friends, neighbors and co-workers who may be in need. At Penn State, the United Way is recognized as the organization best able to provide this assistance, and it is the only charitable organization for which payroll deductions are authorized.

I hope that you will join with me and your co-workers in supporting this united effort to make our communities even better for all of us.

United is the Way



Dave and Rebecca Ryan

Ryan family enriched by United Way

Dave Ryan's life revolves around his family. And, with the death of his wife four years ago, the United Way has played an increasingly important role in the lives of his children. "We have no family locally," Ryan, who is coordinator of the Public Education on Low-Level Radiation Program in the Department of Nuclear Engineering, said. "When my wife died, friends were very supportive. Donna Queeney, who I met professionally through an internship with Continuing and Distance Education, and her husband, Rick, have been most helpful.

"But the care and support we have gotten from the United Way has made an important, rewarding difference in the Ryan family.

"Without this help, my kids' lives would not be as full as they are now. And, I doubt that I would be as good an employee of the University. In fact, I can't imagine what life would be like without this support."

Dave's first involvement with a United Way agency came 18 years ago when his daughter, Rebecca, was born with Down Syndrome. When a baby is born with mental retardation, The ARC (Association for Retarded Citizens) offers support. As Rebecca got older, he became involved with The ARC Board of Directors and served for two years as board president.

Since his wife's death, The ARC's professional staff has played an increasingly substantial role in Rebecca's life.

"My job at the University often requires me to be on the road making presentations," he said. "The ARC guarantees professional care for my daughter when I am away. The ongoing training that The ARC provides prepares the caregivers to deal with any problems, and this gives me confidence and peace of mind.

continued



United Way

Continued from page 1

"There is a lot more involved than custodial care. The goal is to enhance the quality of Rebecca's life. The ARC staff develops a very comprehensive program plan that is individualized for Rebecca.

"For instance, she has difficulty understanding the concept of calendars, which would give her a better sense of time. The ARC's staff has helped to develop and reinforce the concept so that she has a sense of when things are going to happen."

Involvement with The ARC has enabled the Ryans to take advantage of some other community resources for Rebecca. Dave has been able to work out Centre Ride transportation so that she can go to Schlow Library. And Alpha Fire Company volunteers help out with fire training, coming dressed in uniform so that Rebecca is aware the fireman is not someone she should be afraid of.

Easter Seals is another United Way agency that has played an important part in Rebecca's life. In 1992, Easter Seals accepted her into summer camp and she has gone to camp every summer since then. Through that experience, she has gotten involved with the High Five Club, an organization sponsored by Household Finance that meets monthly during the school year and involves members in activities such as bowling and hay rides under supervision of Easter Seals volunteers.

Youth Services Bureau also has provided support for Dave's two other children through the Big Brother-Big Sister program. Joshua had a big brother for a year, and Timothy has had a big brother, Andy Swan, since January, 1993. Andy is a Penn State student and a member of the lacrosse team. According to Dave, Timothy adores him.

Concern and care for Rebecca by the United Way agencies has allowed Dave to give some needed time to his sons and help with their problems.

"After my wife's death, we stopped all activities such as Scouts and sports. But now we're beginning to get back on track: Timothy is an active Cub Scout, and Joshua runs cross country and track.

"By not having to worry about Rebecca's safety because of caregivers provided by The ARC, we have been able to take advantage of various other community services for all the children.

"People tell me that my children are well behaved, are loved and feel secure. There is no doubt that, without the benefit of the United Way agencies, life would not be as good for the Ryan family."



MESSAGE FROM THE CAMPAIGN CHAIR

As someone who has grown up and been a part of this community all my life, I've been able to experience the good fortune of utilizing some of the services of the United Way agencies. I've seen first hand the impact these agencies have had on improving the quality of life in Centre County.

Also, through my involvement, I've seen that the United Way has been able to do it in an efficient, organized and intelligent manner. The United Way is the best way to deliver a multitude of services to benefit greater Central Pennsylvania.

My involvement has given me a greater appreciation of the various challenges and opportunities that face all of us here in Centre County. I've seen agencies come to the help and rescue of people in great need of times when life looks dismal, and I've seen them improve the quality of life in non-emergency situations. It's something you don't always think about unless you personally see what the agencies do.

As chair of this year's campaign, my primary focus is to build on the momentum of the Penn State Campaign over the last number of years. I want to work as hard as possible to increase the portion of the Penn

State community that contributes to the overall effort. We have come a long way, but there is so much more that can be done.

The theme for this year's campaign, *United is the Way*, came from my staff assistant, Sandy Rogus, who, following a brainstorming session in which we were trying to develop a theme, went home and came up with the idea in her sleep. It emphasizes our effort to unite the Central Pennsylvania region and the Centre County and Penn State campaigns.

One of the things that has impressed me the most is the depth and quality of the volunteer groups involved in the United Way—those who are involved in raising funds and those who volunteer in the agencies.

The future of the United Way Campaign and its agencies is very bright with the quality of leadership and individuals involved. Each year we are able to recruit people who understand what the United Way can do for Centre County.

With your help, the best days for United Way are ahead.

Timothy M. Curley
Athletic Director

United is the Way



Finishing Touch Sandy Rogus, left, staff assistant to the athletic director, and Arleen Bilgor, administrative assistant in the Office of Finance and Business, finish off landscaping for a newly installed seating area at Lederer Park in State College as part of the annual United Way Day of Caring on Oct. 3.

Photo: Greg Grieso

United
is the Way

Volunteers play an integral role in the University Park Campaign

Volunteers play an integral role in the University Park United Way Campaign. Without their dedication and seemingly unlimited energy, there is little chance of the campaign being successful.

They can be found in all areas of the campus and they seem able

Way agency and community projects during the annual Day of Caring, student volunteers are planning fund raising through the annual Blue and White basketball game on Friday, Nov. 1, in the Bryce Jordan Center.

Another new—and very successful—event this year was “Hoops for Hope,” a wheelchair basketball



Hoops for Hope Key participants in the “Hoops for Hope” which supported the University Park United Way Campaign are, from left, John Sikora, coach of the Pittsburgh Steelwheelers; Donna Meyer and Janet Bowman, co-leaders for Undergraduate Education’s 1996 United Way Campaign, and Karol Brooks, former international wheelchair athlete. Photo: Greg Grieco

to devise new—and highly productive—means of raising funds.

Their efforts ranged from a pancake breakfast sponsored by Intercollegiate Athletics and Penn State Catering at the Oct. 3 Day of Caring to the recycling effort at Beaver Stadium and the first United Way Golf Tournament sponsored by Computer and Information Systems.

Other fund-raisers included hoagie sales by Continuing and Distance Education and The Smeal College of Business Administration; a kickoff luncheon by the Division of Development and Alumni Relations, and the University Library’s fourth annual book sale. Upcoming events include a lunch/auction on Oct. 31 by employees in Student Affairs, and a tailgate and silent auction with College of Agricultural Sciences alumni at the Nov. 23 Michigan State game.

In addition to working on United

game featuring the Pittsburgh Steelwheelers and former Lady Lion and Nittany Lion basketball players. The Oct. 9 event, supported by employees in Undergraduate Education, raised approximately \$2,000.

Co-team leaders for Undergraduate Education’s 1996 United Way Campaign are Janet Bowman, Academic Assistance Programs, and Donna Meyer, University Scholars Program.

Meyer, who became a part of Undergraduate Education’s United Way Campaign last year, received an award for selling the most hoagies and then was asked to serve as co-chair for an event this year.

“We wanted to do something new and different,” she said, “and my husband suggested a wheelchair basketball game. We didn’t know how to start, but we talked to the right people; got important information and suggestions, and it just took off.

“It was a lot of work. But, when you have a good team of volunteers, there are no limits to what can be accomplished.

“Planning ‘Hoops for Hope’ was very rewarding in that it gave me an opportunity to work not only with other colleagues from different units within Undergraduate Education but also to work for the first time with wheelchair athletes.

“Everyone is gifted with special talents that we sometime don’t recognize, but I think it’s important that everyone note that persons with disabilities are persons with abilities. John Sikora’s (Pittsburgh Steelwheelers coach) athletic ability is an example of how a person can overcome life’s hurdles with a positive attitude and a little determination.”

Bowman, Undergraduate Education’s other team leader, got involved with the United Way when she first started working at the University 18 years ago.

“It was time for the annual campaign and I was asked to be a Steering Committee representative for the unit in which I was working,” she recalled. “I said yes and I’ve been doing it ever since.”

This year’s other first-time event, the United Way Golf Tournament, was directed by John Dixon, Office of Administrative Systems. Organizing committee members were Paul Peworchik, Computer and Information Systems; Ken Miller, Athletics; Ellen Auker, Office of Telecommunications; Sylvia Carson, Library Computing Services, and Bonnie Struble, Center for Academic Computing.

Dixon, who has been involved in the United Way since he began working at the University 17 years ago, has a personal reason for supporting the United Way.

“My dad died when I was 15,” he said, “and I got a lot of help from various agencies supported by the United Way. I’ve been there and know what the United Way means to people. Volunteering is my way of giving something back.”

Here's how you can help:

If everyone who works in Centre County contributed just one hour's pay per month, the benefits would be felt throughout our community.

\$2 PER WEEK

Provides three nights of shelter for an individual in crisis.

\$3 PER WEEK

Provides 18 hours of assistance on the Rays/Albany Child Welfare.

\$5 PER WEEK

Provides 72 days of job development training and support for a person with mental retardation.

\$8 PER WEEK

Provides a Big Brother or Sister for one year for a child at risk.

\$10 PER WEEK

Provides four days of food, shelter and clothing for a family of four who have lost everything in a fire.

\$20 PER WEEK

Provides one week of summer camp for 24 disabled children.

AGENCY SERVICES IN 1995

United Way agencies helped one in three people in Centre County:

- 3,808 physically challenged individuals were able to achieve their highest levels of independence.
- 1,693 victims of family violence and rape received care and support.
- 2,490 people were provided with emergency food supplies.
- 1,214 children and teenagers at risk benefited from counseling and learning programs.
- 4,040 men and women obtained legal and mediation advice.

Campaign leadership gift donors are honored



Campaign Leadership Taking part in the annual event that honors members of the University community who make leadership gifts to the United Way are, from left, Jack Infield and Charlene Friedman, co-chairs of the 1996 Centre County United Way Campaign, and Tim Curley, chair of the University Park Campaign.
Photo: Greg Grieso

best way to help those truly in need and to maintain and enhance the quality of life in our community.

"I challenge you in truly providing leadership to continue your level of giving, but also to let other people know that you believe in the United Way. We need to draw more people into the upper level giving category and we also need to create a pattern of giving for those who are not contributing anything now.

"Help provide that additional leadership by spreading the word for us about the importance of the United Way and the role it plays in improving the quality of life in our community."

Tim Curley, chair of this year's campaign, noted that leadership gifts played a major role in last year's campaign which exceeded its goal.

"Of all the statistics about the United Way, the one that stands out and speaks volumes to our involvement is that one out of three people in Centre County last year utilized services of a United Way agency," he said.

"Through your continued leadership gift support, I believe we can improve services and offer a united effort to improve our community."

Several hundred members of the University community who contribute \$300 or more annually to the University Park United Way Campaign were honored recently at a breakfast at the Penn State Scenicton.

"I challenge you to go one step further," Penn State President Graham Spanier told those attending the breakfast.

"I hope that, as persuaded as you are about the value of the United Way and as generous as you've been, you feel as frustrated as I do that others don't see the same importance in supporting this key endeavor which provides the

Teeing Off For United Way
Rick Villastrigo, art editor
in University Publications,
takes a practice swing at
the first United Way Golf
Tournament sponsored by
Computer and Information
Systems. Ninety-two
golfers took part in the
tournament which raised
\$3,680. Photo: Greg Grieso



United is the Way

Here's How You've Helped

Suzie Brawa entered one of Temporary Housing Inc.'s transitional programs to get her financial house in order. She had been working full-time and attending Penn State as a returning adult student. Suzie had lived through the death of her mother and the tragic loss of her sister. She needed time and the opportunity to recover emotionally and financially.

By this fall, the bills will have been paid off and an emotionally recovered Suzie will have accomplished one other major goal—by the end of October, Suzie will move into her own home.

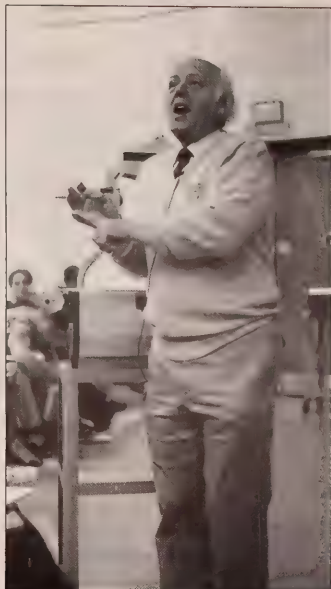
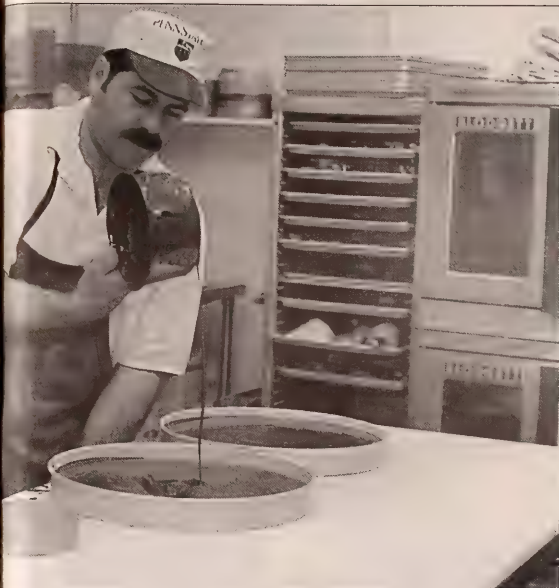
After a Child Assault Prevention Program that teaches children that they have the right to be safe, strong, and free, a third-grader approached me and disclosed the abuse occurring in her house. She said that she had never talked about it with anyone before and was feeling really scared and unsafe at home. I was able to talk to the child about safety planning, such as going to a neighbor's house or calling the police if it were an emergency.

I told her that it was not her fault that she was being hurt and that nobody deserved to be treated that way. First, her knew how courageous it was of her to tell me about this. I informed her that I would be making a child abuse report to Children and Youth Services and that they would try and help her family.

I told her that she wasn't alone and that this was happening to other children. As I said this, she looked up at me with disbelief and said, "You mean this isn't just my family?" I said, "No, this happens to a lot of families." Then she reached out and wrapped her arms around me as tightly as she could and said, "Thank you so much for helping me," as the tears streamed down her face.

—as told by a former children's advocate of the Centre County Women's Resource Center

at the University



Clockwise, from top, second from right:

Laying the foundation: Dan Russell begins work on a chocolate wedding cake at the Penn State Bakery. The bakery makes various baked goods for the University community. Photo by Joyce Duriga.

Capturing their attention: Peter Thrower, professor of materials science, lectures to a class in 105 Forum Building. Photo by Jennifer Grubbs.

All in a day's work: Heather Dann, a recent graduate with a degree in dairy and animal science, draws blood from a cow. Dann is a researcher in a study of how feed additives affect pregnant dairy cattle. Photo by Jim Kinney.

The ARTS

at PENN STATE



On stage

"Philadelphia, Here I Come" will be on stage at 8 p.m. Friday, Nov. 1, in Eisenhower Auditorium on the University Park Campus. For tickets, call the Arts Ticket Center at (814) 865-0255 or (800) 278-7849.

Pennsylvania Quintet

The Pennsylvania Quintet, Penn State's resident wind faculty chamber ensemble, will present a free concert at 8 p.m. Thursday, Oct. 24, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The quintet will perform three new compositions from its "New Music Recording Project," as well as works by Andriessen, Bach and Bizet.

The Pennsylvania Quintet has performed at major venues on both sides of the Atlantic, including the National Gallery of Art, Washington, D.C., and the Schleswig-Holstein Musik Festival in Germany. The members of the Pennsylvania Quintet are Eleanor Duncan Armstrong, flute; Tim Hurtz, oboe; Smith Toulson, clarinet; Lisa O. Bontrager, horn; and Daryl Durran, bassoon.

Greek Sing

Greek Sing, sponsored by the Penn State Panhellenic Council, will be held at 3 p.m. Saturday, Oct. 26, in Eisenhower Auditorium on the University Park Campus. Tickets are \$5.50 in advance and \$7 at the door. All proceeds benefit the Gayle Beyers Scholarship Fund. For information call (814) 865-0510.

Concert set for Oct. 27

The 54 members of the Penn State Concert Choir, conducted by D. Douglas Miller, professor of music, will present their major fall on-campus performance at 3 p.m. Sunday, Oct. 27, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

A special feature of Sunday's concert will be the performance of one piece sung by both the Concert Choir and a number of alumni of Penn State choirs conducted in the 1950s and 1960s by retired professor James Beach. The piece will be conducted by Beach.

Tickets for Sunday's concert are \$2.50 for students and \$4.50 for non-students, available in Room 233 of the Music Building during regular business hours and at the door before the concert.

Behrend film series

The Division of Humanities and Social Sciences at Penn State Erie, The Behrend College, continues its fall 1996 International Film Series at 7:30 p.m. Monday, Oct. 28, with "Ay, Carmela!"

On Monday, Nov. 4, "Yo, la Pasa de Todas (I, the Worst of All)" will show; and "Valentina" will be presented Monday, Nov. 11.

The films selected have all received critical acclaim, and "Ay,

Carmela!" won 13 Goya Prizes, the equivalent of the Spanish Oscar.

All films will be shown in the Reed Lecture Hall, Reed Union Building. For more information contact the Division of Humanities and Social Sciences at (814) 898-6108.

"Annie Get Your Gun"

"Annie Get Your Gun," celebrating its 50th anniversary this year, will be performed at 8 p.m. Tuesday, Oct. 29, in Eisenhower Auditorium on the University Park Campus.

The musical, with music and lyrics by Irving Berlin, thrills audiences with the adventures of trick shooters Annie Oakley and Frank Butler. The production stars Glenn Yarborough and Rita McKenzie.

Tickets are \$32.50, \$27.50 and \$23.50 for non-students and \$27.50, \$23.50 and \$20.50 for students. For more information, contact the Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 865-0255. Outside the local calling area, phone (800) 278-7849.

Bach's Lunch

The Penn State Clarinet Choir, directed by Smith Toulson, professor of music, will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, Oct. 31, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The free 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Clarinet Choir consists of 12 clarinetists; all but one are clarinet majors in the School of Music. Audience members may bring their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Art on the Move

Art on the Move at the North Halls Cultural Lounge on the University Park Campus features "The Return of Jehu" and other oil paintings by Michael Christy until Nov. 1.

Christy, a senior completing his BFA in painting, also has exhibited at Patterson and Zoller galleries, and in downtown State College at the Daily Grid.

"Philadelphia, Here I Come"

The Lyric Theatre of Belfast will perform "Philadelphia, Here I Come" at 8 p.m. Friday, Nov. 1, in Eisenhower Auditorium on the University Park Campus. The play is sponsored by the College of Arts and Architecture's Center for the Performing Arts. It tells the story of a young man on the point of emigrating to the United States from Ireland, and the poignant need he feels to break through the barrier of silence that divides him from his father.

The Lyric Theatre of Belfast has nurtured the talents of the city's playwrights through 25 years of civil unrest. This is the theatre's first production of "Philadelphia, Here I Come" since 1976. Tickets are \$23.50 for non-students and \$19.50 for students. For more information, contact the Arts Ticket Center.



BRYCE JORDAN CENTER

Smashing Pumpkins

Chicago's alternative rock band Smashing Pumpkins, with special guest Garbage, will appear at The Bryce Jordan Center at 7:30 p.m. Friday, Nov. 8. Tickets are available at the Jordan Center Ticket Center, selected Uni-Mart's, Penn State campus outlets in Altoona, Erie, Hazleton and Reading, or by calling (814) 865-5555, or toll-free at (800) 863-3336. Tickets are \$26 for reserved seating.

With a fresh new outlook, Smashing Pumpkins will be promoting a new double CD "Mellon Collie and the Infinite Sadness." The group recently won seven MTV Video Music Awards for its videos, "Tonight, Tonight" and "1979."

Upcoming events

■ **Nov. 2:** Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

■ **Nov. 9:** WYNNONNA with special guest Ty Herndon, 8 p.m.; tickets are \$21, general public, and \$19 for students.

■ **Nov. 15:** World Gold Gymnasium Tour; tickets \$25, \$25 and \$17.50 for adults; children (12 and under) and senior citizens (60 and over) receive a \$3 discount.

■ **Nov. 23:** Penn State Tailgate Party, four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at The Bryce Jordan Center, or for more information on any event listed here, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu/>.

Kern Exhibit

The Kern Exhibition Area on the University Park Campus will display coin art and jewelry by Claire Allison Rutiser through Nov. 17.

A materials science graduate student, Rutiser combines art and engineering, aesthetics and technology, to mint coins and design her jewelry.

Seven years ago the artist saw a demonstration of medieval coin minting and was fascinated by the elegance and beauty of the process. Rutiser's apprenticeship taught her the great traditions of ancient Celtic and Roman craftsmen.

Rutiser makes her newly minted coins into earrings and necklaces.

The exhibit is free to the public.

Arts

continued from page 1

Art Alley exhibit

Art Alley in the Hetzel Union Building on the University Park Campus features drawings by **Christine Meyers** through Nov. 17. The exhibit includes both portraits and still-life color pencil drawings.

A native of Johnstown, Pa., Meyers has been commissioned to draw portraits of the Pittsburgh Penguins. An award winning artist, she creates sensitive, colorful representations.

Exhibit features Old Main

An exhibit titled "Old Main Through The Years" looks at the many phases of Old Main's history and is now on display in the lobby of Pattee Library on the University Park Campus. Created by the University Archives/Penn State Room, the exhibit features archival photograph reproductions and some relics, including some of the earliest photos dating from 1859 and 1862 through recent photos.

The exhibit will be on display through January. It will move to Old Main in conjunction with the Lion Ambassadors Founder's Day activities in February 1997.

Odyssey Through Literature

On the next episode of *Odyssey Through Literature*, English Professor **Robin Schulze** discusses the friendship between Marianne Moore and Wallace Stevens, two poets caught by "the changing slovenliness of nature." The two poets met early in their careers by reading each other's poetry in magazines. They began a correspondence, through which each learned from the poetry of the other, Schulze said.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 P.M. on WPSU, 91.5 FM.

Exhibits continue

Several exhibitions are continuing at the Palmer Museum of Art on the University Park Campus.

■ **Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection** brings together 26 works of modern to contemporary art from the collection of **Gerry and David Pincus**. The exhibition includes selections from Jackson Pollock, Andy Warhol, Andres Serrano, Mark Rothko, William de Kooning, Robert Mapplethorpe and other contemporary artists. It continues through Dec. 15.

■ **Cooking for the Gods: The Art of Home Ritual in Bengal** focuses on Hindu ritual activity that expresses the private relationship between the worshiper and the gods in the eastern region of India known as Bengal. The exhibition runs through Dec. 8.

■ **When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences** is an exhibition of 57 paintings, which are part of a collection devoted to Pennsylvania's mineral industries established by **Edward Steidle** during his tenure as dean of the College of Earth and Mineral Sciences, from 1928-1953. It is on view until Dec. 8.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, October 25

■ Palmer Museum of Art, Christoffers Lobby, 2 p.m. Mary F. Linds, Gallery Talk on "The Gods Must Be Hungry."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "London Chamber Orchestra." For tickets, call (814) 863-0255. Graduate Student Association, 6:30 and 8:30 p.m., 112 Kern. Film, "Othello," through Oct. 26.

Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "Maybe... Maybe Not," through Oct. 26.

Saturday, October 26

University Resident Theatre Company, 2 p.m. and 8 p.m., Playhouse Theatre. "A Cry of Players." For tickets, call (814) 863-0255.

Penn State Panhellenic Council, 3 p.m., Eisenhower Auditorium. Greek Sing. For tickets, call (814) 865-0510.

Sunday, October 27

School of Music, 3 p.m., Recital Hall. "Penn State Concert Choir/Chamber Singers," D. Douglas Miller, conductor.

Tuesday, October 29

■ Spanish Club, 7 p.m., Ligon Auditorium. Film "Il Postino." Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Annie Get Your Gun." For tickets, call (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Flute studio recital.

Thursday, October 31

School of Music, 12:10 p.m. to 12:30 p.m., Eisenhower Chapel. Bach's Lunch Concert presents "The Penn State Clarinet Choir." School of Music, 8 p.m., Recital Hall. "Penn State Percussion Ensemble," Dan C. Armstrong, conductor.

Friday, November 1

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Patrick McGrady, curator of education, "Some Thoughts on the Steidle Collection." Graduate Student Association, 6:30 and 8:30 p.m. Film, "Stealing Beauty," through Nov. 2.

Graduate Student Association, 6:30 and 8:30 p.m. Film, "Maybe... Maybe Not," through Nov. 2.

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Brian Friel's "Philadelphia, Here I Come!"

Saturday, November 2

Palmer Museum of Art, 11:30 a.m., Christoffers Lobby. Gallery Talk presents Jennifer Stroh on "Highlights of the Palmer Museum."

School of Music, 8 p.m., Recital Hall. Guest Artist Recital presents Jeffrey Taylor, violin.

Sunday, November 3

School of Music, 1 p.m., Recital Hall. Women's Chorale, Robert Draloff, director.

School of Music, 4 p.m., Recital Hall. "Penn State University Choir," Anthony Leach, conductor.

Tuesday, November 5

School of Music, 8 p.m., Recital Hall. "Penn State Trombone Choir/University Bands," Mark L. Lusk, director.

SEMINARS

Physics, 3:30 p.m., 339 Davey Lab. Tom Taylor on "Superstring Dualities in Five and Four Dimensions."

Engineering Mechanics, 3:35 p.m., 204 Sackett. John Scully on "The Transition from Metastable to Stable Pitting: Experiments and Modeling."

Geography, 4 p.m., 206 Walker. Peter Gleick on "Fresh Water in the 21st Century: Problems and Promise."

Saturday, October 26

■ 9 a.m., 124 Sparks. Michael Gilbert on "German-American Studies in the College Classroom."

Monday, October 28

■ Comparative Literature, 12:15-1:20, 101 Kern. Lisa Reed, "On a Peculiar French Pronoun."

Tuesday, October 29

School of Visual Arts, 3 p.m., Ligon Auditorium. Palmer Museum. Roland Reiss on his artwork.

History, 4 p.m., Frizzell Room. Eisenhower Chapel. James McPherson on "Daring You Should Not Have Said That: Married Soldiers in the Civil War."

Nutrition, 4 p.m., 110 Warlik Lab. George Fahey on "Functional Food Properties of Non-Digestible Carbohydrates."

Biology, 4 p.m., 8 Mueller Lab. S. Blair Hedges on "Molecules, Earth History and Vertebrate Evolution."

Center for Women Students, 7 p.m., Hetzel Union Building, Assembly Room. Penn State SURVIVE, Peer Sexual Assault Counselors on "Let's Talk—Sexual Assault at Penn State."



"Big Help"

Drawings by Christine Meyers will be on display in the Hetzel Union Building Art Alley on the University Park Campus through Nov. 17. The exhibit includes "Big Help," shown here, and other portraits and still-life color pencil drawings.

Wednesday, October 30

Gerontology Center, noon to 1 p.m., 101 Health and Human Development East. Daniel Lago, Wayne Campbell and Helen Smicklas Wright on "Well at Home: Promoting Exercise and Balanced Nutrition Among the Vulnerable Rural Elderly."

Engineering Mechanics, 3:35 p.m., 214 Hammond. Steve Tail on "Exploitation of Failure Probabilities."

Thursday, October 31

Ceramics, 11 a.m., 301 Steidle. Jeff Rickman on "Impact of Heterogeneous Boundary Nucleation on Transformation Kinetics and Microstructure."

Physics, 3:30 p.m., 101 Osmond Lab. Les Smolin on "Critical Phenomena in Cosmology and Quantum Gravity."

Jewish Studies Program, 8 p.m., Ligon Auditorium. Norman Kleebatt, Susan and Elihu Rose Curator of Fine Arts on "Too Jewish? Challenging Traditional Identities."

Friday, November 1

Geography, 4 p.m., 206 Walker. Lynn Staehel on "Community, Place and Citizenship: Local Politics in a Translational Era."

Monday, November 4

Comparative Literature, 12:15 p.m., 101 Kern. Sydney Aboul-Hosn on "Why Doesn't She Speak?: The Feminine Rejection of Narration From Poe to Gilman."

Tuesday, November 5

Geosciences, 4 p.m., 112 Walker. Lonnie Thompson on "Ice Core Records from Tropical Mountain Glaciers."

CONFERENCES

Saturday, October 26

"Your Horizons in Science, Mathematics and Engineering" for seventh-, eighth- and ninth-grade girls is sponsored by Women in Science and Engineering. For information, call (814) 865-3342.

Monday, October 28

"Innovations in Engineering Education" at the Penn State Scanlon is sponsored by the College of Engineering, through Oct. 29. For information, call (800) PSU-TODAY.

Monday, November 4

Pasteurizer Operator's Workshop, Nittany Lion Inn, through Nov. 6. NACA Chocolate Handling Workshop, Nittany Lion Inn, through Nov. 6.

■ Reflects an international perspective

Awards

Innovative rural nursing partnership is awarded

The Rural Nursing Center Project, a partnership between the School of Nursing in the College of Health and Human Development and the Home Nursing Agency, based in Altoona, Pa., has been selected to receive a 1996 Sigma Theta Tau International Archeon Award.

The Rural Nursing Center Project is one of about 30 model programs nationwide selected for this award which recognizes not-for-profit organizations which are collaborative and innovative, and which contribute to new directions of health care.

The Rural Nursing Project has established two rural nursing clinics in central Pennsylvania — one in Mount Union, Huntingdon County, and another in Port Matilda, Centre County. Services provided include community health surveys, health screenings, health education, physical exams, immunizations, support groups, referrals, acute care and chronic care. The project was established to

address poor access to health care in the region. Rural central Pennsylvania has been designated as both a health professional shortage area and a medically underserved area. The nursing centers are jointly operated and administered by Home Nursing Agency and Penn State.

One innovative aspect of the joint venture uses telecommunications to facilitate professional education and to improve delivery of health care services in rural central Pennsylvania. By audio and video teleconference, electronic mail, facsimile and other computer network systems, communities have increased access to health care information and services.

The collaboration between the School of Nursing and the Home Nursing Agency is supported by a two-year grant of \$325,000 from the Independence Foundation of Philadelphia.

Health and Human Development bestows achievement award

The College of Health and Human Development recently honored Joy L. Lose for her service to the college.

Lose is the recipient of the 1996 Carol Clark Ford Staff Achievement Award, which recognizes outstanding achievement by a staff member who "makes it easier for others to accomplish their objectives effectively and efficiently." The award was endowed by Donald H. Ford, dean emeritus of the former College of Human Development, in honor of his wife, Carol Clark Ford.

Lose has spent all of her 19-year Penn State career in the college. She is currently the assistant to the department head for communication disorders. In addition to providing support for the department head, she monitors department budgets and assists with grants. She also supervises graduate, undergraduate and clinical staff assistants, work study students and wage payroll employees.



Joy L. Lose

Statistical Association names department head as new Fellow

James L. Rosenberger, professor and head of the Department of Statistics, was named a Fellow of the American Statistical Association, a singular honor within the association that recognizes an individual's outstanding professional contribution and leadership in statistical science. Rosenberger was selected for his leadership of a major statistics department, for excellence and innovation in his consulting activities and for his dissemination of knowledge in statistics and statistical computing.

A member of the Penn State faculty in the Department of Statistics since 1976, Rosen-



James L. Rosenberger

berger is head of the department and founding director of the Statistical Consulting Center, which was established in 1982 to provide statistical assistance to researchers in other disciplines and to provide realistic training experiences involving research collaborations for graduate students in statistics.

Rosenberger has served as statistical consultant to many Penn State researchers and to agencies and companies such as Minitab Inc.; Nittany Engineers and Management Consultants Inc.; and the Strategic Highway Research Program. He is the author or co-author of more than 64 publications in the field of statistical science.

Four honored from Cooperative Extension

Two members of the Penn State Cooperative Extension staff are among 84 agents in the United States to receive Distinguished Service Awards from the National Association of County Agricultural Agents, while two staff members received Achievement Awards.

Those honored with Distinguished Service Awards were: William Kleiner, Adams, Franklin and York counties extension agent, and Carol Schurman, Indiana County extension agent; Alan Strock, Lancaster and Chester counties extension agent, and Jeffrey Fowler, Venango County extension agent,



William Kleiner

both received Achievement Awards. The four were cited for "outstanding educational contributions and accomplishments."

Kleiner has been a member of the extension staff for almost 15 years. He was instrumental in the development of a consumer education program on fruit production in southcentral Pennsylvania, which included his video "The All American Apple." He also developed an extensive program on the proper and safe use of agricultural chemicals to protect the

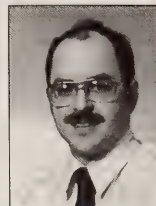


Carol Schurman

environment and the applicator.

Schurman has been a member of the extension staff for 18 years and has developed innovative 4-H programs, helping increase enrollment 104 percent. She introduced 4-H embryology to schools, has formed coalitions with other youth groups, and initiated day camps in agricultural science and environmental awareness.

Strock, a staff member for eight years, provides farm management leadership in



Alan Strock

Chester, Lancaster and southern Berks counties. He led and organized three of the four top-rated Dairy MAP programs in 1995.

Fowler has been a member of the extension staff for a little more than seven years. In that time, he has been instrumental in the development of the Northwest Pennsylvania 4-H Livestock and has helped increase knowledge of basic livestock production.



Jeffrey Fowler

University Libraries seeks applicants for dean

A search committee has been appointed to identify candidates for the position of dean of the University Libraries. The dean is the chief administrative and academic officer of the University Libraries, and reports directly to the executive vice president and provost. The dean is a member of the Council of Academic Deans and is the official representative and advocate for the Libraries, fostering cooperative participation in academic programs, CIC partnership arrangements, consortia, government and grant-sponsored programs and industry relationships.

The University Libraries includes a central library and five subject libraries at University Park and a library at each of 20 Penn State campuses throughout the Commonwealth. Collections include more than 3.75 million volumes, as well as extensive holdings of maps, microforms, government publications, archives, computer databases and audio-visual materials. There are approximately 390 staff, including 87 librarians with full faculty status. The dean has primary responsibility for budgets, strategic planning, personnel resources, leadership of the Libraries' faculty, library automation, fund raising and the development of collections, services and programs.

Candidates should have high-level management experience in a research library, based on in-depth experience in librarianship and including significant experience with integrated library systems and net-



lectual and service missions of its libraries. The successful candidate should have the vision to lead the University Libraries into the 21st century, a record of innovation and demonstrated record of success in fund-raising. It is expected that the dean will have a commitment to and sustained achievement in scholarship and research in librarianship or another discipline, commensurate with a tenured appointment in the University Libraries or one of the University's academic units; and national standing in the profession. A master of library science degree or its equivalent from an accredited program is required; an additional advanced degree is desired.

Nominations, applications and inquiries should be submitted to Susan Welch, chair of the Search

Committee for the Dean of the University Libraries, The Pennsylvania State University, 201 Old Main, Box PSI, University Park, Pa. 16802. Applications and nominations will be reviewed beginning Dec. 15, and will be accepted until the position is filled. If you would like more information on the University Libraries, please refer to the Web pages at <http://www.libraries.psu.edu>.

In addition to Welch, other search committee members include: Deborah F. Atwater, head of the Department of African and African American Studies and associate professor of speech communications; Michael E. Berman, distinguished professor of music; William D. Ensore, undergraduate student; Bonnie J. MacEwan, coordinator of collection development and associate librarian; Deena J. Morganti, associate librarian, Penn State Berks Campus; Linda R. Musser, head of Earth and Mineral Sciences Library and associate librarian; Kaushik Parthasarathy, undergraduate student; Jorge R. Schement, associate dean for graduate studies and research, College of Communications; Harold B. Shill III, head of Heindel Library, Penn State Harrisburg; and Deborah J. Stout, librarian, University Archives/Penn State.

Associate librarians, Penn State Delaware County Campus; and Carol A. Wright, associate librarian, General Reference.

Promotions

Staff

Christian K. Appleman, restricted earnings coach in Intercollegiate Athletics.

Cathy Barefoot, staff assistant V in Continuing and Distance Education.

Rebecca L. Barton, staff assistant VI in Office of Human Resources.

Carolyn Boswell, admissions counselor III at Penn State Delaware County Campus.

Julie M. Brenneman, proposal and grant aide in Research and Graduate Studies.

Chris J. Brown, systems analyst in Computer and Information Systems-Telecommunications.

Mary Anne L. Cahir, associate director II in Division of Development and Alumni Relations.

Vincent R. Carter, staff assistant to financial officer III in Corporate Controller's Office.

Francine M. Cauffman, staff assistant VII in College of Engineering.

Kathleen Cerullo-Frick, business analyst II at The Hershey Medical Center.

Karen M. Detwiler, staff assistant VI in Continuing and Distance Education.

Edward R. Drapcho, staff assistant VI in the Office of Physical Plant.

Craig E. Farrell, manager, network and information systems at the Penn State Altoona Campus.

Marlene R. Gilliland, staff assistant VII at Penn State Mont Alto Campus.

Daniel O. Gordon, advanced engineering aide in Applied Research Laboratory.

Rebecca K. Grager, staff assistant VII at The Hershey Medical Center.

Melissa L. Grimm, admissions officer at Penn State Erie, The Behrend College.

Kathleen M. Gummo, staff assistant VI in College of Earth and Mineral Sciences.

Elizabeth A. Haas, staff assistant V in the Office of Physical Plant.

Scott Harrison, senior extension associate in College of Agricultural Sciences.

Rosemarie Hibbler, staff assistant VI in the College of the Liberal Arts.

Deborah D. Holdren, research technologist in College of Agricultural Sciences.

William T. Hughes, D.U.S. programs coordinator at the Penn State Mont Alto Campus.

Angela D. Janey, financial officer III in Corporate Controller's Office.

Janice K. Kennedy, staff assistant VI in Research and Graduate School.

Lydia A. Kepler, assistant extension agent in College of Agricultural Sciences.

Jolene C. Kost, staff assistant VI in the Office of Physical Plant.

Carolyn A. Kresen, staff assistant IV in University Safety.

Ashoo Kumar, library assistant III in University Libraries.

Clyde F. Le Fevre, manager, production/information services in Computer and Information Systems.

Mindy B. Lutcho, staff assistant VI in Office of Physical Plant.

Amy C. Lutz, staff assistant V at The Hershey Medical Center.

Phyllis A. Martin, staff assistant V at Penn State Abington-Gonzaga Campus.

Robert D. McCaig, director, enrollment management at Penn State Abington-Gonzaga Campus.

Sandra S. McCain, computer support assistant in Continuing and Distance Education.

Kris M. McNeil, staff assistant V in Research and Graduate School.

Margaret B. McNulty, systems coordinator at Penn State Altoona Campus.

Michelle M. Moore, coordinator, oncology program at The Hershey Medical Center.

Gail L. Newcomer, library assistant at The Hershey Medical Center.

Peggy Ketting Oliver, staff assistant IV in College of Agricultural Sciences.

Christine M. Onder, staff assistant VI in the Office of Physical Plant.

Mary J. Peters, computer center specialist I in office of the vice president and dean, graduate education.

Academic Studies Programs/University Learning Resources Center.

Karen L. Schultz, director, Client and Administrative Services in Computer and Information Systems-Telecommunications.

Jerry W. Shirey, network coordinator at Penn State New Kensington Campus.

Sonya J. Shomo, staff assistant VII in Research and Graduate School.

Kathleen M. Simon, administrative assistant at The Hershey Medical Center.

Amey J. Simpson, staff assistant V in Eberly College of Science.

Gwendolyn A. Smith, admissions counselor II at Penn State Abington-Gonzaga Campus.

Heather M. Smith, staff assistant VI at Penn State Abington-Gonzaga Campus.

James T. Campbell, dining hall worker A in Housing and Food Services.

Kathy D. Grubb, grill cook, HUB, Housing and Food Services.

Jo Anne R. Guhier, food preparer A in Housing and Food Services.

Robert F. Korman, store room worker in Housing and Food Services.

Kellie J. La Vanish, snack bar worker B in Housing and Food Services.

Mary B. Myers, snack bar worker B in Housing and Food Services.

Paul J. Nicolini, dining hall worker A in Housing and Food Services.

Sandy B. Notto, maintenance worker, utility, Penn State Dubois Campus.

Phyllis J. Omdorff, food preparer B in Housing and Food Services.

David R. Plummer, general helper-repairer, Housing and Food Services.

Daniel K. Schleiden, food preparer B in Housing and Food Services.

Jeffrey L. Seymour, boiler operator in Office of Physical Plant.

John R. Smith, maintenance worker-utility, Office of Physical Plant.

William W. Stoner, groundskeeper-landscape A in Office of Physical Plant.

Diane M. Wood, residence hall utility worker in Office of Physical Plant.

Robert P. Zelensky, food preparer A in Housing and Food Services.

Private Giving

Agreement between IBM and Penn State yields \$4 million in computer discounts and grants

Penn State and IBM have reached an agreement under which IBM will provide discounts, grants and computer hardware valued at \$4 million. The agreement reinforces a relationship that has lasted more than 40 years.

The University will receive approximately 30 RS/6000s, which are Unix-based workstations; six SP/2 nodes, which provide additional processing power for the University's scalable parallel computer system; and RAMAC II disk storage. The RAMAC II is the leading-edge disk storage for large computing operations such as those of the University and will aid Penn State in consolidating its computer enterprise and in improving its efficiency.

"Penn State is honored to have a continuing relationship with IBM that has yielded such positive results for both parties," said President **Graham B. Spanier**. "The research the University has conducted in the past has led to unique experiences for our students and faculty and has contributed to IBM's technological advances."

L.C. "Buzz" Waterhouse, a 1973 graduate of Penn State and general manager, marketing and business development for IBM, was instrumental in securing the agreement.

With matching dollars from the University, IBM is providing equipment that will support research in the College of Engineering, the Center for Academic Computing, the Eberly College of Science, The Smear College of Business Administration and the Commonwealth Educational System.

A project in the Department of Chemical Engineering will use the IBM RS/6000s to conduct high performance computational studies in such areas as the motion of fluids; turbulence and its effect on the transport of red blood cells near artificial heart valves; the diffusion of large molecules in glassy polymeric solids, which has applications in the development of food storage bags, contact lenses and plastic gas tanks for automobiles; and in the development of a computational framework to support the development of software tools.

"The heavy computational requirements of these projects will test the performance of the IBM hardware and software and will enable Penn State to provide feedback to IBM," said **Anne-Lee Verville**, general manager for Worldwide Education Industry IBM. "The final product of this project will be the development of computer codes that will be used in chemical industries that run on IBM platforms. Most importantly, however, will be the educational experience provided to a large number of graduate and undergraduate chemical engineering students."

A team in the Department of Computer Science and Engineering is working on developing an alternative to individual high-priced machines — a cluster of workstations connected to a network that will provide a high level of computer power at a much lower cost. They will develop analytical tools and simulation models for the network. IBM will be able to use this information in designing their future RS/6000 machines.

While students will benefit from their participation in the research projects, the University will also benefit from the upgraded disk technology. The RAMAC II disk storage will save the University more than 4,000 square feet of floor space and \$350,000 in the annual cost of running the older disk storage system.

According to **J. Gary Augustson**, executive director of computing and information systems, "Because of the extensive cost of replacing old disk technology, the University has been running our central computing systems with very old technology. This agreement has enabled us to replace all of the old disk equipment in both the Center for Academic Computing (CAC) and the Office of Administrative Systems (OAS). The new RAMAC II disk storage is significantly less expensive to operate and significantly smaller than the older technology."

"The RAMAC II disk storage will enable the University to run both the OAS and CAC more efficiently and cost-effectively."

IBM made the gift through its Worldwide Education Industry and a combination of funds from the Shared University Research (SUR) grant program, special promotions, discounts, and matching dollars from Penn State. IBM initiated the SUR grant program four years ago to promote a cooperative research environment between IBM and selected research institutions.

Penn State Behrend receives \$1 million gift from alumnus

Penn State Erie, The Behrend College, has received a \$1 million gift from the Jim and Gerda Benson Family Foundation, an endowment fund established within the Erie Community Foundation.

James O. Benson, a founder and chairman of the manufacturing conglomerate PHB Inc., is an adviser to the endowment. It is the second time the young college has received a million-dollar gift from an alumnus.

"I have been very fortunate," said Benson, who received a degree from Penn State-Behrend in drafting and design technology in 1957. "I think it's important to give back to the community in order to allow others to fulfill their dreams."

Benson made his gift in the hopes of enhancing the College's commitment to working with area manufacturers.

The college will name the fourth and final building in its \$6 million Engineering Complex the **James O. Benson Building** in his honor. Benson joins four other industrialists from the region who have made serious commitments to the complex: **Richard J. Fassmeyer**, chairman and CEO of RJF International Corp.; **Joseph J. Frischak**, president of the PlasteK Group; and **William C. Witkowski**, president of Port Erie Plastics. The atrium connecting the four buildings is named in honor of **Paul and Margaret Roche**. Roche was the founder of Erie Plastics.

Upon graduation, Benson accepted a

temporary position with the Parker White Metal Co. "The 'temporary' position lasted about 37 years," he said.

At the same time, Benson started his own machining company operating in the basement of his home. In 1967, it was incorporated as Reddog Industries. In 1984, Reddog Industries acquired Parker White Metal through a buyout, incorporating under the name of PHB Inc.

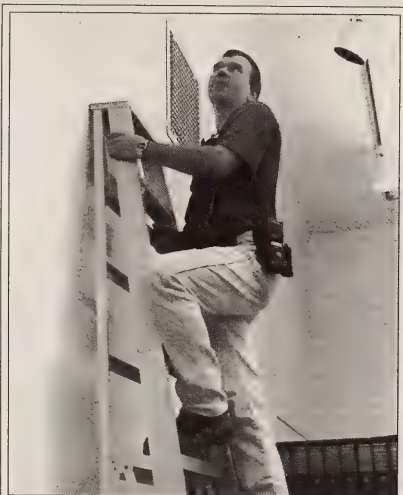
PHB Inc. has more than 1,000 employees at three facilities in Erie County, recording annual sales in excess of \$80 million.

During his career, Benson was deeply committed to service activities in the Erie community. He served on the board of directors of both the United Way of Erie County and the Manufacturers' Association of Northwestern Pennsylvania, and held membership in the Elk Valley Rotary.

Benson, founder and first president of the Behrend Alumni Club, received the Penn State Alumni Fellow Award in 1995.

He and his wife, **Gerda**, live in Jupiter Island, Fla., where he was recently named chairman of the board and CEO of Fuelbust International. The company manufactures and markets an environmentally safe fire-fighting material.

Penn State-Behrend officially dedicated the **James O. Benson Building** and the Engineering Complex in a ceremony on Sept. 20.



Getting ready

Danny Thompson and other Office of Physical Plant workers are busy this time of year repairing thermostats so they function properly when the weather turns frosty. Thompson recently worked on the thermostat in 203 Schwab Auditorium on the University Park campus.

Photo: Andrea Hurley

Research

Ancient DNA holds key to determining sex of skeletal remains

By ANDREA ELYSE MESSER
Public Information

Unisex haircuts and clothing can sometimes make gender identification difficult, but once the clothes come off, identification is easy. Forensics specialists and archaeologists have not had such an easy time when uncovering human skeletal remains, especially those of young children, but researchers may have a DNA solution to the problem.

"Until recently, the size and shape of bones were the only means of establishing the sex of skeletons from archaeological or forensic contexts," Anne C. Stone, graduate student in anthropology, said. "The ability to recover DNA from bone opens the way for determining sex in cases of juvenile remains or where only bone fragments are recovered."

Some methods of determining gender from DNA studies of the X and Y chromosomes — the so called sex chromosomes — have been developed, but are inappropriate for use in archaeological situations where the genetic material is old and only short segments of DNA can be replicated using current laboratory methods. Some existing methods use gene sequences that are only on the Y or male chromosome. The presence of that sequence indicates that the subject was male, but the absence does not prove that the subject was female.

The researchers, including Stone, George R. Milner, professor of anthropology, Mark Stoneking, associate professor of anthropology, and Svante Paabo of the University of Munich, worked with the amelogenin gene.

"The interesting thing about this small part of the amelogenin gene is that, while it occurs on both the X and Y chromosome, there are fixed differences between the male and female version," Stone said.

Stone looked at DNA samples from 20 adult skeletons. These individuals could be definitively sexed using their cranial and pelvic bone features. She also looked at modern DNA samples taken from blood.

While anthropologists and



George R. Milner, professor of anthropology, and Anne C. Stone, a graduate student in anthropology, piece together a model of a human skull. Their research with Mark Stoneking, associate professor of anthropology, and Svante Paabo of the University of Munich centered on the amelogenin gene.

Photo: Greg Grieco

forensics experts have been determining sex by examining known skeletal differences between men and women for years, this technique will not work for juveniles. The differences that occur between men and women only become apparent after puberty. Experts sometimes also have difficulty definitively deciding on the sex of a skeleton if it falls in the area where the male and female ranges overlap or if only fragments are recovered.

Stone extracted DNA from the modern blood and the ancient bones and, using a process called polymerase chain reaction, isolated the amelogenin segments of the DNA. These isolated segments were then replicated again to increase the amount of DNA available.

The amplified DNA was then tested to determine which form of the amelogenin gene each contained.

"The blind typing of the modern DNA produced 19 correct sex identifications and one that came up female when the sample was labeled male," Stone said. "A second DNA-based sex typing

method was used on the one incorrect sample and it too produced a female result. It appears that this sample was mislabeled in the field and the new method correctly identifies this person's sex."

For the ancient samples, one individual was DNA typed as female when the skeletal examination indicated he was male. This individual's DNA was extremely difficult to extract and the amount was probably insufficient to produce a reliable result. The other individuals were all correctly identified.

There are other DNA tests that can determine sex in living populations when large quantities of DNA can be obtained. However, this method appears to be more sensitive than other DNA methods to very low quantities of DNA, Stone said.

Extracting DNA from ancient or badly preserved bones can be difficult. A method that uses only a minute amount of DNA but reliably produces correct sex types can help in archaeological research and in identification of victims in forensic settings.

Nausea is not the same for everyone

A woman calls her doctor and reports feeling nauseous; she has the morning sickness of pregnancy. A second woman calls her doctor with nausea accompanied by eye pain; she has a migraine headache.

Does the nausea feel the same to both women?

New research suggests that it probably doesn't.

Nausea can be caused by a host of conditions and situations — pregnancy — motion sickness, chemotherapy and migraines, to name a few. The data show that the experience varies widely from one individual to the next.

Nausea has now been scientifically investigated and defined by researchers in a multi-year study of 1,695 Penn State students.

The research shows that nausea means different things to different people, thus an accurate description is central to the diagnosis and treatment of the disease or condition. Researchers have discovered 17 descriptors that define — in a specific and statistically significant way — the feelings that come under the umbrella of nausea.

Depending on the individual, nausea may mean stomach sickness to one person, but another may use it to describe dizziness or lightheadedness.

Lead author of the study Eric Muth, a graduate student in experimental psychology, is conducting his doctoral research at The Hershey Medical Center. He studies gastrointestinal psychophysiology, or how the brain and gut interact.

Extensive testing and statistical studies resulted in a list of 17 descriptors to define nausea. Each of these was rated on a scale of 0 to 9. Based on these ratings, the descriptors were clustered into three groups: somatic or body distress; gastrointestinal distress and emotional distress.

Subjects reported somatic distress as feeling fatigued, weak, hot, sweaty, light-headed, shakiness. Gastrointestinal distress was reported as feeling sick, stomach awareness or discomfort, a feeling as if he or she might vomit, ill, queasy. Emotional distress was reported as feeling nervous, scared or afraid, worried, upset, panic, hopeless.

The authors point out that "The ability to quantify nausea and its dimensions using the nausea profile will allow researchers and clinicians to differentiate what was previously assumed to be a homogeneous state or condition and to focus on appropriate treatments."

Muth collaborated in this study with Dr. Kenneth Koch, professor of gastroenterology in the College of Medicine, and Robert Stern, professor of psychology. Koch and Stern are leaders in the study of nausea and motion sickness.

BookShelf

James A. Bardi is author of *Hotel Front-Office Management*, Second Edition.

Bardi, certified hotel administrator and instructor in hotel restaurant and institutional management at the Penn State Berks Campus, had his manuscript published by Van Nostrand Reinhold, N.Y.

This comprehensive guide covers all aspects of the front office. Each chapter begins with an "opening dilemma" requiring the reader to get involved and take an active role in the industry he or she will soon enter. Case studies, hospitality profiles and a section called "Front Line Realities" illustrate how developing skills will lead to success in the industry.

Francis T. S. Yu, Evan Pugh professor of electrical engineering, is the co-editor of *Optical Storage and Retrieval: Memory, Neural Networks and Fractals*. Volume 54 in the Optical Engineering Series published by Marcel Dekker Inc. This 344-page book was released in June and co-edited by Suganda Jutamulia, general manager of research and development at Kowa Company Ltd., in San Jose, Calif., and associate professor of biomedical engineering at the University of North Carolina, Petaluma.

In order to improve technology in the information age, scientists and engineers like Yu and Jutamulia are attempting to replicate, as closely as possible, human memory. *Optical Storage and Retrieval* provides an overview of the developments made in recent years in optical memory, neural networks and fractals based on the perspectives of engineers and technicians in the field of optical information processing. The book was written by international experts representing the United States, Japan and Russia, and is geared toward optical, electronic and computer engineers; physicists; chemists; materials scientists; and graduate students.

In his introduction to the latest volume in the SPIE Milestone Series, titled *Selected Papers on Linear Optical Composite Materials*, Akhlesh Lakhtakia, associate professor of engineering science and mechanics and editor of the book, uses what he refers to as "alimentary metaphors"—phrases that use food to illustrate the increasing complexity of the materials discussed in the 60 articles that comprise the 720-page volume. The book was published by the International Society for Optical Engineering.

The new volume takes readers through three sections: a general introduction to particulate composite materials and the theories that surround them (dating back as far as 1806); a section on laminated composites; and a final section on cutting-edge research on thin films.

The SPIE Milestone Series was introduced in 1985 to present a limited number of papers written on an important topic warranting a great deal of research and attention.

Carpoolers

■ Carpooler wanted from Continental Courts, Bellefonte, to University Park, starting late November; mainly winter months. Work hours are 8 a.m. to 5 p.m. Call Dave at 863-63116 or 466-2227; or e-mail dwl6@psu.edu or dwlehning@aol.com.

■ Carpooler wanted from Phillipsburg to University Park Monday through Friday. Leave Cold Stream Dam parking area 6:45 a.m. and depart campus at 5 p.m. Call Mary at 865-3632.

For the Record

David J. Eggebeen was misidentified in a story on page 15 of the Oct. 17 *Intercom* due to a reporting error.

Working with the AIDS Quilt in Washington, D.C.



Volunteers include many from our community

Judy Albin, assistant director of East Halls on the University Park Campus, (above) helped unfold a section of the AIDS Quilt Oct. 19-20 in Washington, D.C. Residents of State College, the surrounding community and members of the University faculty, staff and student populations went to Washington in two buses for the event. These locals were some of the more than 10,000 volunteers working on the quilt display.

The quilt, seen in the early morning hours, left, stretches from the Capitol Building to the Washington Monument. Without its walkway, it covers 15 acres and is the size of 14 football fields. At its unfolding, the quilt contained 36,199 panels, weighed 42 tons and represented 11 percent of all AIDS deaths in the United States. More than 2,500 panels were added over the weekend. Organizers have said that because of its size, the quilt will probably not be displayed in its entirety again.

Eight of the quilt's panels will be on display at the Penn State McKeesport Campus from Dec. 5-7. For information about that event, contact the campus health office at (412) 675-9490.



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Alumnus named chair of upcoming capital campaign

Penn State alumnus **Edward R. Hintz** has been named chair of the University's forthcoming capital campaign. Hintz is founder and president of the New York investment firm of Hintz, Holman and Hecksher, and an experienced fund-raiser for Penn State. The campaign will aim to raise private funds for scholarships, graduate fellowships, faculty endowments and a variety of academic programs.

"The first step in a successful fund-raising campaign is to recruit capable volunteer leadership, and in Ed Hintz we have the very best," said President **Graham B. Spanier**. "Ed has more than 20 years of experience as a Penn State volunteer and has earned the respect and admiration of our alumni. He also is highly esteemed on Wall Street and can bring to bed an impressive amount of financial expertise on our behalf."

"He is totally committed to advancing our university on every front. I am extremely pleased that he has accepted this critical leadership role."

Hintz previously served as a vice chair of The Campaign for Penn State, a six-year effort that concluded in 1990 after having secured more than \$352 million in gifts for academic programs. He oversaw the campaign's regional major gifts drive.

The new campaign's goal will be announced later, according to Spanier.

See "Campaign" on page 3



BOO!

Staff members at the Shaver's Creek Environmental Center were busy Oct. 24, carving more than 700 pumpkins for use on the center's Haunted Halloween Trail. Pumpkin coordinator Tanya Holler said the pumpkins were donated by Penn State Farms and Aulwirth Farms, and credited the many volunteers who helped make the trail possible.

Photo: Andrea Murley

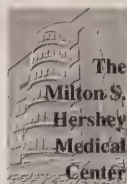
Hershey marks 25th anniversary of pediatric unit

From its first days in operation when only two staff members and three physicians were on board to its most recent achievement this year of performing a heart transplant on a child, The Milton S. Eversley Medical Center's pediatric services unit has grown and expanded to meet the needs of central Pennsylvania families. In a celebration this month, the medical center marked an important milestone: For the last quarter of a century, it has been providing care for children in need.

By **LISA M. ROSELLINI**
Public Information

When Dr. **John H. Dossett**, professor of pediatrics, looks back on his 25-year career as a specialist in pediatric infectious diseases at The Hershey Medical Center, he marvels over the advances made in medicine since Hershey's pediatric unit opened in 1971. But Dossett also observes that in that same time period, while gains in some areas were being made, many new diseases dramatically changed the face of medicine.

"We've seen the development of vaccines for illnesses that at one time meant certain death," Dossett recalls. "We started out 25 years ago taking care of



See "Hershey" on page 3

Couple gives \$2.5 million to endow program

Penn State alumnus **William E. Leonard** and his wife, **Wyllis**, have designated \$2.5 million to endow the **William and Wyllis Leonard Honors Program** in the College of Engineering. The program consists of merit-based scholarships designed to attract and retain outstanding undergraduate engineering students.

University benefactors for more

than 20 years, the Leonhards' most recent gift is the sixth major endowment they have established.

In 1992, they endowed the Leonard Chair for the Enhancement of Engineering Education with a \$10 million gift, the largest gift ever received by the College of Engineering. They also created the Jeanne Leonard Endowment in Education in honor of

their daughter, the Richard W. Leonard Chair in Aerospace Engineering in honor of their son, the William E. Leonard Professorship in Engineering and the William E. Leonard Chair in Engineering.

Students selected as Leonard Scholars will receive a \$2,500 cash award per semester for up to eight semesters, personal attention through

a special mentoring program from faculty and industrial mentors and the opportunity to develop leadership skills by participating in the Engineering Leadership Development Minor and activities of the Leonard Center.

The program is to begin in the fall of 1997 with a pilot group of students,

See "Gift" on page 3

Inside



Blood donor challenge

Penn State wants to defeat Michigan State this November, and you can help. For details, please see the story on page 12.



Research

Black cats, ladders, broken mirrors and haunted houses can all be pretty scary, if you believe the legends associated with them. To learn more about the power of legends, please see page 15.

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Awards

Two receive Eberly distinguished service award

Nancy E. Killeen and Gary L. Mullen are the recipients of the 1996 Eberly College of Science Alumni Society Distinguished Service Award, the alumni society's highest honor.

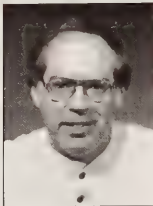
Established in 1979, the Distinguished Service Award is presented annually to individuals who have made exceptional service and leadership contributions to the college and/or its alumni society.

Killeen, manager of staff services in the Department of Chemistry, began her Penn State career in the Department of Data Processing in 1962. She has held a variety of positions and in 1982 joined the Department of Chemistry as an administrative aide. In her current position, she is responsible for supervising a majority of the departmental staff, overseeing all departmental finances, and managing the department's finances.

She was honored on behalf of the University in 1996 with a certificate for her "extra contributions to research and scholarly productivity." Killeen has served on several University committees and teams and is now a member of the planning committee of the Eberly College of Science and a University-wide continuous quality improvement



Nancy E. Killeen



Gary L. Mullen

team. She also is a Penn State student majoring in parks and recreation management and a member of the Alpha Sigma Lambda honorary society for returning adult students.

Mullen, associate chair of the Department of Mathematics, was honored for his more than 20 years of outstanding service to the Eberly College of Science. As the college's first assistant or associate dean to have held a position at a Penn State

campus, he contributed a thorough understanding of the challenges facing Commonwealth Campus faculty and was effective in encouraging them to undertake research projects.

After receiving his Ph.D. from Penn State in 1974, Mullen became an instructor at University Park. He was promoted to assistant professor of mathematics at the Penn State Shenango Valley Campus in 1975 where, after being promoted to associate professor in 1979, he remained until 1982. He was named assistant dean of the College of Science for Commonwealth Campuses and Continuing Education in the spring of 1982, professor and acting associate dean for research in 1989, and later that year associate dean for research, continuing education and commonwealth education. He became associate chair in the Department of Mathematics in 1995.

He has published more than 80 research papers related to finite fields and their many practical applications in information science and is regarded as an international expert in these areas. Mullen is founding editor-in-chief of *Finite Fields and Their Applications*, associate editor of *Designs, Codes and Cryptography*, and assistant editor of *Fibonacci Quarterly*.

Chemistry senior lecturer honored for teaching excellence

Robert David Minard, senior lecturer in chemistry and director of the Mass Spectrometry Facility and Organic Chemistry Instructional Laboratories, is the recipient of the 1996 C. I. Noll Award for Excellence in Teaching. Sponsored by the Eberly College of Science Student Council and Alumni Society, the award is the college's highest honor for undergraduate teaching. The recipient is chosen by a committee of students and faculty from nominees suggested by students, faculty and alumni.

Minard has made major contributions to the improvement of the organic chemistry laboratory instructional program, developing new courses ranging throughout the chemistry curriculum and restructuring existing courses. Among his major achievements are the establishment of an undergraduate Chemistry Resource Center Instruction Room, changes in course structures to allow the hundreds of students taking organic chemistry each semester to have access to modern instrumentation,

increased accessibility to modern computer resources and implementation of collaborative learning experiences. In 1993, he guided the \$2 million renovation and modernization of the organic laboratories.

An expert in molecular analysis by mass spectrometry, his research involves a diverse range of analytical problems.

He earned his bachelor's degree in chemistry at St. Olaf College in 1963 and his doctoral degree from



Robert David Minard

the University of Wisconsin in 1968. He joined Penn State in 1973 as a lecturer in chemistry and director of the Mass Spectrometry Facility. In 1988 was appointed director of the Organic Chemistry Instructional Laboratories and in 1996 was appointed senior lecturer in chemistry.

Minard is the author or co-author of more than 76 research publications, plus the laboratory guides and instructor's manuals for the Penn State organic laboratory courses. Among the accolades he has received are the Provost's Award in 1996, the Alumni Society Distinguished Service Award in 1994, the Schreyer Institute for Innovation in Learning Teaching Fellowship in 1994 and the duPont Teaching Award in 1994.

Minard is a faculty fellow of the Schreyer Institute and is involved with the Center for Bioremediation and Detoxification.

Associate professor at DuBois earns grant for picture book writing

Richard Kopley, associate professor of English at the Penn State DuBois Campus and assistant head of English for the Commonwealth Educational System, recently received a Barbara Karlin Grant for picture book writing from the Society of Children's Book Writers and Illustrators.

The unpublished book, *The Remarkable David Wordsworth*, is set in a second grade classroom and concerns a boy who invents new compound words, causing new creatures and things to appear. It is targeted to an audience of 5- to 10-year-old children. Kopley is currently working on a sequel, *David Wordsworth Goes Too Far*.

Five Cooperative Extension agents are honored

Five extension agents in the College of Agricultural Sciences received awards from the National Extension Association of Family and Consumer Services. Beth Van Horn, Centre County extension director, received the Distinguished Service Award, which recognizes excellence in programming at

the state level. Nancy Covert, extension agent in Jefferson County, and Andrea Bressler, senior extension agent in Clearfield County, received the Florence Hall Award, which recognizes outstanding accomplishments of NEAFCS members. Natalie Ferry, extension agent in Union County, and

Michelle Rodgers, assistant to the Southeast Regional Director, received the Continuing Excellence Award.

Rodgers also received the Grace Frisinger Award, which gives extension home economists funds to study family living education in other states or countries.

Assistant professor earns Young Investigator Award

Shizhuo Yin, assistant professor of electrical engineering, has been selected to receive the Army Research Office's Young Investigator Award. The award supports research by exceptional

scientists who have held a doctorate for fewer than five years and provides the recipients with a three-year financial award to support research in fields critical to the Army that

will also benefit civilian manufacturing industries. Yin will continue to conduct research on a novel multiple aperture system for surface roughness measurements.

Campaign

continued from page 1

"We will certainly attempt to secure a far greater total than we did during our first campaign and involve more Penn State students as well," Spanier said.

"We will set our goal after we have completed the advance gifts phase. At that time, we will launch the campaign formally, announce a goal and invite all of our alumni and friends to participate."

Hintz's fundraising experience also includes leading the campaign to raise \$20 million in private funds—ultimately raising nearly \$23 million—to help build the 16,500-seat Bryce Jordan Center. He and his wife, Helen, were members of the leadership committee recruited by head football coach Joe Paterno and his wife, Sue, that raised \$14 million in gifts for the Paterno Library addition at the University Park Campus.

Earlier this year, Hintz concluded a three-year term as chair of the National Development Council, Penn State's top fund-raising advisory body. During those three years, the University received about \$245 million in private support. The council will be succeeded by an executive committee charged with providing the campaign's volunteer leadership.

Hintz said the campaign has the potential to affect future generations of students and faculty in a profound way, and is a tremendous challenge for both him and the University.

"My first task is to work with the president and our professional development staff to identify members for the new executive committee. This committee will form the core of the campaign's volunteer leadership," Hintz said. The new chairman will announce the members of the committee as they are recruited throughout the next six to nine months.

A Reading native, Hintz graduated from Penn State in 1959 with a bachelor's degree in finance. He began a career as an investment manager and analyst and worked for several top firms in the securities field before founding his own firm in 1975. *The Wall Street Journal* recently described Hintz, Holman and Hecksher as having achieved the second best investment record of all firms managing portfolios of \$100 million or more over the last five years.

The Hintzes' philanthropic support to the University has reflected their broad range of interests. They have endowed scholarships in the College of Health and Human Development and the School of Music. They have supported both undergraduate and graduate education, made substantial gifts to the Penn State Berks Campus, the University Libraries and The Bryce Jordan Center.

Ed Hintz was elected to the University's Board of Trustees in 1994, and also serves on The Smear College of Business Administration's Board of Visitors. The Smear College named him an Honorary Fellow in 1982. In 1992, Penn State named him a Distinguished Alumnus, the highest honor it bestows on its graduates.



Edward R. Hintz

Gift

continued from page 1

and the Leonard Honors Program endowment will be fully operational and supporting 25 students annually by the year 2006.

William Leonard graduated from Penn State in 1936 and earned a master's degree from M.I.T., both in electrical engineering. He completed a 28-year military career that began in the U.S. Army Corps of Engineers and ultimately led him to the position of chief of staff, Headquarters System Command, at Andrews Air Force Base in Maryland. At his first retirement in 1964, he held the Air Force rank of brigadier general, then began a civilian career with the Parsons Corp. in Pasadena, Calif.

In 1990 he retired for the second time as chair and chief executive officer from Parsons, a leading international engineering firm.

In 1982 Leonard was elected to the National Academy of Engineering and was named a Penn State Distinguished Alumnus. In 1988 he was hon-

Hershey

continued from page 1

children with leukemia expecting none would live and now 70 percent will be cured. But on the other hand, we're seen the extreme. We've gone from no HIV to a large number of children being treated for AIDS."

Dossett, who still practices at the medical center, has stayed at Hershey for over two decades because of the "exceptional cadre of clinical and research specialists" that founding dean Nicholas M. Nelson brought together. Nowhere else in the region could parents find the specialists that Hershey could provide.

What started 25 years ago on unsure footing due to a budget freeze at the University that imposed staffing limitations, has grown into a 120-bed Children's Services facility — now known as the Penn State University Children's Hospital — and a nationally renowned pediatric cancer research center.

When it first opened in 1971, financial constraints allowed only 26 of 66 beds to be used. But the need for pediatric care in central Pennsylvania was great. Hershey's unique location in the rural part of the state and near a large, established Amish community made its contributions even more significant. Dossett recalls that, while the rest of the nation believed childhood polio was eradicated, he was treating the last known case in the United States.

"There was and is not another center in this part of the state that can offer the research and clinical services for children that this center does," he said.

As the demand for services grew, the pediatric unit put all of its beds into service and made plans to expand. By 1973, the Neonatal Intensive Care Unit (NICU) was opened, operating as a regional referral center for premature infants in a 14-county region. In July 1976, the region's need for neonatal intensive care prompted an \$87,000 expansion project that increased the NICU's bed capacity from 17 to 26. With an average of 18 patients daily, the unit had been pushed beyond its capacity for more than a year.

Today, nearly 80 full-time faculty physicians are involved in patient care at the Penn State University Children's Hospital. The hospital, which provides comprehensive services for infants, children and adolescents through the age of 18, has inpatient facilities that include: 34 acute care beds; a 12-bed pediatric intensive care unit; a 30-bed neonatal intensive care unit; a 14-bed pediatric intermediate care unit; a 16-bed child psychiatry unit; and 16 beds in the University Hospital Rehabilitation Center.

ored as a Penn State Alumni Fellow. He was a member of the National Development Council, the University's highest level fund-raising advisory board, and is a founding member of the Leonard Center advisory board.

Wyllis Leonard has made her family and community her career. This has involved raising their three children, spending thousands of hours volunteering in scouts, PTAs and at the Huntington Memorial Hospital in Pasadena, and keeping their "mental hospital" of 37 moves they've made in the 57 years she and her husband have been married.

Since their retirement in 1990, the Leonhards have been enjoying traveling, focusing on their philanthropy, visiting their children and also becoming reconnected with Penn State. In 1993 they returned to State College to live permanently.

Two of the Leonhards' three children are Penn State alumni.

"The hospital has just gone through a tremendous period of growth," Dr. Ronald L. Poland, chairman of the Department of Pediatrics, said. "This past year we did our first heart transplantation in a child. Liver and bone marrow transplants are on the drawing board. We will be involved in gene therapy when that becomes available and we are always striving to stay on the leading edge."

Poland, who is also physician-in-chief for the University Children's Hospital, said in the last six years alone, the hospital has added pediatric specialists in a variety of areas from cardiology to urology. The center is also reaching a wider geographic area than ever before. In 1995, doctors at the pediatric facility saw close to 50,000 children on an outpatient basis, while about 3,700 children were admitted for treatment. These numbers do not include the children who sought rehabilitation or psychiatric services.

Plans for the future, according to Poland, involve expanding into communities that have been identified as needing care. Already, the University Children's Hospital has opened subspecialty clinics in Allentown, the Centre Region, the Scranton/Wilkes-Barre area and York.

"Outside of the major cities in Pennsylvania, we have the only subspecialties in many areas like oncology and urology," Poland said.

"A big thrust for the coming year will be for us to meet people on their home ground, to make it more convenient for them to get to us. It's been shown that people who are experts in the care of children get better results when treating children than those who are general physicians."

But the Penn State University Children's Hospital is not about care. It's also about prevention. Many ongoing research programs at Hershey involve finding the causes of debilitating childhood ailments, like Dr. Robert C. Vannucci's five-year study funded by the National Institutes of Health. Vannucci is working on discovering the mechanisms that lead to brain damage in newborns. Last year, researchers at the University Children's Hospital garnered about \$3 million in research and service grants.

In addition to the care and research aspects of the University Children's Hospital, the facility also serves as the central teaching base for comprehensive general pediatric residents.

"We have made great strides in so many areas," Poland said. "We are on the ground floor to test improvements that will help children live happier, healthier lives. We're learning to do things better."

"A big thrust for the coming year will be for us to meet people on their home ground, to make it more convenient for them to get to us."

Dr. Ronald L. Poland,
chairman, Department of Pediatrics

LECTURES

Retired major general to talk about Hispanics in military

Major Gen. Leo Marquez, U.S. Air Force, retired, will be the featured speaker in a panel discussion of "Hispanics in the Military," at 7 p.m. Monday, Nov. 4, in the Paul Robeson Cultural Center on the University Park Campus.

Col. Robert D. Phillips, professor of aerospace studies at Penn State, and Cadet Oswaldo Rodas, a student in aerospace program, will join him in the discussion, part of Hispanic Heritage Month.

Among his many assignments, Gen. Marquez served at Bitburg Air Base, Germany, and McChord Air Force Base in Washington before being assigned to the 3rd Tactical Fighter Wing, Bien Hoa Air Base in Vietnam. He was then selected for exchange duty with the Canadian Forces in Ottawa, and served in management positions at various Air Force

bases before being named lieutenant general and then major general, as deputy chief of staff for logistics and engineering, U.S. Air Force, in Washington, D.C.

Marquez has received numerous awards, including the Legion of Merit with one oak leaf cluster, a Bronze Star Medal, and Air Force Commendation Medal with one oak leaf cluster. He also received the Air Force Association's Executive Management Award in 1977 and, in 1978, was named a distinguished alumnus from New Mexico State University where he had received his bachelor's degree in zoology.

Marquez received an MBA from The George Washington University, completed Air Command and Staff College at Maxwell Air Force Base and attended an advanced management program at Carnegie Mellon University.

Workshop discusses options for high school graduates

Kenneth Gray, professor of education and co-author of *Other Ways to Win: Creating Alternatives for High School Graduates*, will be the keynote speaker at "Choosing the Right Future," a day-long workshop for parents, teachers and counselors to be held Saturday, Nov. 9, at the Penn State-Scranton.

In his book, Gray said that a majority of high school students are academically ill-equipped to handle the rigors of a four-year baccalaureate program. He exposes what he refers to as the "one way to win" mentality that a four-year degree is the only way to ensure a bright future, and provides sensible, cost-effective alternatives.

Terry Borg, Continuing and Distance Education program planner and former director of student services at the University of Wisconsin, will join Gray at this daylong exploration of

postsecondary education choices. Borg will provide an overview of a variety of choices for graduating high school seniors; examine ways to be a critical consumer of postsecondary education and training; and take participants on the application and admissions process, and information on types of education and training sites.

Geoffrey J. Harford, director of admissions services and evaluation; Ro Nwraniski, student aid adviser; and Paul Simenson, assistant director of financial aid, will provide practical advice on the application and admissions process, and information on applying for placement activities and applying for funding.

For more information about program content, call Borg at (814) 865-7679. To register, call Lori Benson at (814) 865-0229. To receive a free brochure, call (800) PSU-TODAY.

Exactly how do we use all of our time?

John Robinson, a national expert on Americans' use of time, will give a talk, "Why Americans Are Working Fewer Hours But Think They're Working More," at 9 a.m. Tuesday, Nov. 5, in 112 Buckhout Lab on the University Park Campus. The talk is sponsored by the recreation and park management/leisure studies program.

Robinson, who is a member of the Department of Sociology at the University of Maryland, is director of the Americans' use of time project. For more than 30 years, he has directed time diary studies with national samples of the American public to monitor changes in time use and the patterns of daily life. Robinson also is associate editor of *American Demographics* magazine.

Marker Lectures' focus to be genetics Nov. 5-7

Joan Steitz, a professor in the Department of Molecular Biophysics and Biochemistry at Yale University, will give the 1996/97 Marker Lectures in Genetic Engineering from Nov. 5 to 7 on the University Park Campus.

The three-lecture series is sponsored by the Eberly College of Science and is open to the public.

The lecture schedule includes: "Lupus, Snurps and Genetic Nonsense" at 8:30 p.m. Tuesday, Nov. 5, in 101 Thomas Building; "The Cell Nucleolus: Yet Another RNA Machine?" at 6 p.m. Wednesday, Nov. 6, in 102 Thomas Building; and "A Novel Spliceosome Excises Rare AT-AC Introns" at 11:15 a.m. Thursday, Nov. 7, in 204 Thomas Building.

A member of the Yale faculty since 1970 and currently the Henry Ford II professor of molecular biophysics and biochemistry, Steitz has made outstanding contributions to the field of molecular genetics.

Significant findings emerged from Steitz's work as early as 1967, when her Harvard Ph.D. thesis led



Joan Steitz

to important early insights about how the protein and nucleic-acid components of viruses come together.

In 1970 she accepted a position as assistant professor of molecular biophysics and biochemistry at Yale and became full professor in 1978. She established a laboratory at Yale dedicated to the study of RNA.

In 1979, Steitz and colleagues through in the understanding of how RNA is spliced. Currently she leads the Molecular Genetics Program in the Boyer Center for Molecular Medicine and is an investigator of the Howard Hughes Medical Institute.

Steitz's achievements have led to a host of honors, including the Pasano Foundation Young Scientist Award in 1975, the National Medal of Science in 1986, and the Radcliffe Graduate Society's Medal for Distinguished Achievements in 1987.

The Marker Lectures were established in 1967 through a gift from the late Russell Earl Marker, professor emeritus of chemistry.

Changing steel industry and opportunities to be discussed

"The Changing Steel Industry: Opportunity Knocking," will be the subject of a seminar presented by Richard M. Wardrop Jr., president and chief operating officer of AK Steel Corp., Middletown, Ohio, at 4 p.m. Monday, Nov. 4, in room 301 Steidle Building on the University Park Campus.

Today, AK Steel is recognized for extraordinary efficiency, product quality and customer service as well as industry-leading profitability. In 1992, when Wardrop arrived as vice president of manufacturing, the company was on the verge of financial failure. Since the first quarter of 1994, the company has set the pace for U.S.-rated steel making in operating income per ton. AK Steel's plants produce coated and cold-rolled steel

products for applications in the automobile, appliance, construction and manufacturing industries, with annual sales of \$2.3 billion in 1994.

In April 1994, Wardrop was named president and in May 1995 he also became CEO. Wardrop is a 1968 graduate of Penn State in metallurgical engineering. Wardrop received the David and Lucile Packard Award for distinguished achievement in metallurgy from the Penn State chapter of ASM International in 1995 and was named a Centennial Fellow of the College of Earth and Mineral Sciences.

The seminar is part of the Metals Science and Engineering 590 Seminar Series coordinated by Tarasankar DebRoy, professor of metallurgy.

Forum topic is "Latinos in the Media"

Three area journalists and a leader in the Hispanic community will be featured in an open forum on "Latinos in the Media" on Nov. 14 at noon at the Penn State Harrisburg Eastgate Center.

The presentation will feature Lillian Escobar-Haskins, chair of the Public Policy Committee of the Board of Directors of the National Puerto

Rican Coalition; Richard Kearns, political journalist with *El Hispano*; John Kirkpatrick, editor of the *Harrisburg Patriot/News*; and Efrin Roche, editor of *Community Focus*.

The open forum is free to the public. To register, call the Penn State Harrisburg Eastgate Center at (717) 772-3590. The Eastgate Center is located at 1010 N. Seventh St. in Harrisburg.

More Lectures

Feminist Scholars talk Nov. 1

Iris Young, professor of public and international affairs at the University of Pittsburgh, will be the second speaker in the Women's Studies Feminist Scholars Series. Her talk will be held at 7:30 p.m. Friday, Nov. 1, in 101 Kern Building on the University Park Campus. The title of her talk will be "Should Feminists Respect the Ideal of Home?" All faculty and students may attend.

Lecture to examine media coverage of the elections

Jeff Cohen, founder and executive director of Fairness & Accuracy in Reporting (FAIR), a New York-based media watch organization, will present a lecture titled "Media Coverage of the Election" at 7 p.m. Monday, Nov. 4, in the Study Learning Center at the Penn State Worthington Scranton Campus. The lecture is free.

Cohen's weekly syndicated column for Creators Syndicate and Alternet appears in more than a dozen daily newspapers. His commentaries have also appeared in *USA Today*, the *Los Angeles Times*, the *Boston Globe* and the *International Herald Tribune*. He has contributed to many books and is the co-author of *Adventures in Medialand: Behind the News, Behind the Pundits*.

For more information about the lecture, call (717) 960-4311.

Nov. 7 lecture to analyze elections

The Penn State Downtown Center in Harrisburg will sponsor "Election '96: The Spinductors Speak" from noon to 1:30 p.m. Thursday, Nov. 7.

A panel of Pennsylvania pundits will put their spin on the election and discuss the implications for 1998 and beyond. Panelists include Republican state Rep. David Argall; Mark Singel, chairman, Penn State Democratic Committee; and Robert Bresler, professor of public policy at Penn State Harrisburg. Michael Young, director of the Survey Research Center at Penn State Harrisburg, will moderate the discussion.

A question-and-answer period will follow the discussion. Light refreshments will be served. Reservations must be made by Nov. 1. For more information or to register, call (717) 783-0433.

Series spotlights quantum gravity

The most promising young researchers in the field of quantum gravity will give a series of free public lectures on Friday, Nov. 8, and Saturday, Nov. 9, during the 4th Annual Penn State Conference on Gravitational Physics.

The lectures, sponsored by the Penn State Center for Gravitational Physics and Geometry, include these lectures on Friday, Nov. 8: "Progress Toward LIGO: A Suspended Power Recycling Interferometer Prototype" by Gabriela Gonzalez of the Massachusetts Institute of Technology at 9 a.m.; "Beating Supercomputer: Perturbation Approach for Close Black Hole Collisions" by Hans-Peter Nollert of Penn State at 9:50 a.m.; and "Kinematics and Dynamics of Null Foliation" by Simonetta Frittelli of the University of Pittsburgh at 11:10 a.m. More lectures follow on Saturday.

For additional information, contact Karen Brewster at (814) 863-9605 or e-mail karen@phys.psu.edu.

Presentation on land-use Nov. 12

Kelleann Foster, associate professor of landscape architecture at Penn State, will give a multimedia presentation on land-use issues and urban/regional planning and development on Tuesday, Nov. 12, as part of the Penn State Berks Campus' "Breakfast with Penn State Series."

The talk, to be held in the Perkins Student Center Theatre, is titled "Is Berks County in Danger: The Police Report" and will begin at 8 a.m.; continental breakfast will be served at 7:30 a.m.

Foster holds a master's degree in landscape architecture from the University of Massachusetts. Before beginning full-time teaching and research in 1989, Foster worked at McCloskey and Faber, P.C. near Philadelphia, where her work included all aspects of planning and design. She also taught part time at Temple University in the Department of Landscape Architecture and Horticulture. Her research interests include community design and planning and her most recent work focuses on using computer technologies and image manipulation to communicate alternative community design scenarios.

To reserve a seat for this free talk, please call (610) 320-4899.

Talk gives prognosis for decade

Another lecture in the "Prognosis for the Decade: The Future of Health and Disease in Pennsylvania" series offered by The Hershey Medical Center is set for 8 to 9:30 a.m. Tuesday, Nov. 12, at the Penn State Downtown Center in Harrisburg.

"The Elderly: In Sickness and in Health" will be presented by Dr. David Barnard, professor and chair, Department of Humanities, Hershey Medical Center. The ongoing series is designed to inform members of the state Legislature, state government agencies and those involved in health care policy about projections on health and disease throughout Pennsylvania in the near future.

All sessions are free to the public, but registration is required. To register, call the Penn State Downtown Center at (717) 783-0433. A continental breakfast will be provided.

Future of Christianity at Berks

"One Nation Under... American Christianity in the 21st Century" will be held at 4:30 p.m. Tuesday, Nov. 12, in the Perkins Student Center Theatre on the Penn State Berks Campus.

Brenda Brasher, assistant professor of religion and philosophy at Mount Union College in Ohio, will discuss how America has enjoyed religious peace and diversity for centuries, helped by the advent of denominationalism — an innovative organizational strategy that provided intra-group identity and toleration.

The lecture will present a profile of a simmering late 20th-century American Christianity, describing correlations between the factors that threaten its unity and socio-cultural changes that are under way in the United States.

Brasher earned her bachelor of arts degree from Indiana University, her master's degree from Christian Theological Seminary and her doctorate from the University of Southern California. She also studied at the United Theological College in Bangalore, India.

Seminar gives insight on climbing scientific ladder

"Capitalizing on One's Abilities: Moving Up the Scientific Ladder" will be the subject of a seminar by Catherine Jay Didion, executive director, Association for Women in Science, at 2 p.m. Thursday, Nov. 7, in room 305 of the Hetzel Union Building on the University Park Campus.

Didion has been executive director of the more than 6,000-member AWIS since 1990.

She has written about women and science for a range of publications and writes a bimonthly column, "Women in Science," for the *Journal of College Science Teaching*. She is currently the chair of the environment and science task forces for the Coalition for Women's Appointments and has worked closely with the Clinton administration to facilitate the appointment of women scientists to high-level federal positions.

AWIS, with 74 local chapters across the country, undertakes undergraduate and graduate mentoring programs supported by the Alfred P. Sloan Foundation and the National Science Foundation. The organization also has published a number of books on mentoring, including *A Hand Up: Women Mentoring Women in Science and Mentoring Means Future Scientists*.

The seminar is sponsored by the Women in the Sciences and Engineering Institute, the Science, Technology and Society Program and the Equal Opportunity Planning Committee.

Biology professor to give several lectures Nov. 6-7 at University Park

Marlene Zuk, professor of biology at the University of California, Riverside, will give several lectures on the University Park Campus in November. On Nov. 6 at 4:30 p.m. in 118 Willard Building, Zuk will discuss "Sex Differences and Evolution: Notes of a Darwinian Feminist," at 3:30 p.m. Thursday, Nov. 7, in 106 Boucke, she will talk about "Singing Under Pressure: Acoustically-Orienting Parasitoids and their Cricket Hosts," and at 7 p.m. that same day, she will discuss "Women in Academic Science" in 12 Sparks Building.

Zuk, who received her B.A. at the University of California, Santa Barbara and her Ph.D. from the University of Michigan, conducts research on animal behavior, particularly mate choice and the evolution of sex differences; and the effects of parasites on host ecology and behavior. More recently, her long-standing commitment to feminism has dovetailed with her academic interests, particularly the relationship between feminism and science.

Her visit is sponsored by the Penn State Chapter of Sigma Xi, the Scientific Research Society, the Ecology Seminar, STS, Women in Science and Engineering (WISE) and the Women's Studies Program. For more information about the lectures, call Pat Gong at (814) 863-9963.



Catherine Jay Didion

News in Brief

Lunchtime round-table discussion

Thomas Berner, professor of journalism and American studies in the College of Communications, will discuss "Early Chinese Rubbings: Precursor to Written Communications" and lead a lunchtime round-table discussion hosted by the Penn State Chapter of the National Association of Science Writers, at noon Wednesday, Oct. 30, in room 114 Kern Building. While in China, Berner became interested in these carvings that are rubbed and are a proto-printing method.

NASW lunchtime programs are open to anyone interested in science communication. For more information, contact A'ndrea Messer at aem1@psuvm.psu.edu.

Free blood pressure screenings

Faculty/Staff Health Promotion will be offering free blood pressure screenings at the Benefits Open House on Wed., Nov. 6, from 8 a.m. to 4 p.m. in 101 Kern Building.

Health promotion programs

To register for the following programs, contact Jan Hawbaker at (814) 865-3085 or jqh3@psu.edu:

HIV/AIDS: Spread Facts, Not Fear Workshop

This workshop is aimed at preparing faculty and staff to become members of the University's "You Can Ask Me About AIDS" Network. Established by the Penn State HIV/STD Consortium, the network consists of people who voluntarily serve as points of contact for faculty, staff and students who have questions and concerns about HIV and AIDS. The workshop will enable participants to become more comfortable sharing factual information about HIV/AIDS and identify campus and community resources for needs related to HIV/AIDS. Upon completion of the workshop, participants may decide if they wish to become members of the network. Workshop meets Tuesday, Nov. 12, from 1-4 p.m. in 16 Ritenour Building. Cost: none.

Osteoporosis

During this brown-bag discussion, learn how this debilitating condition can be prevented, or its effects minimized. Diagnostic procedures, availability of pharmacological or physical therapies, and ways to cope with a diagnosis of osteoporosis also will be discussed. Meets Thursday, Nov. 7, from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost: free.

Cardiovascular risk appraisal

The next open session of the Know Your Numbers Program is Friday, Nov. 15, in 101 Kern Building. Program includes screenings for blood pressure, body mass index and total and HDL cholesterol, as well as an explanation of results. Cost is \$15, reimbursable to HMO participants. To schedule an appointment, contact Jan Hawbaker at (814) 865-3085 or JQH3@psu.edu.

Volunteers still needed for transportation study

The Pennsylvania Transportation Institute is still recruiting volunteers to participate in a lateral acceleration research project. The study is designed to analyze how comfortable individuals feel while driving around curves in the roadway. Subjects between the ages of 35 and 45 are needed for day-time testing. Participants will earn \$20 for a one-hour testing session. For more information, contact Bryan Hanover at (814) 863-1044 or via e-mail at bsh118@psu.edu.



University takes over former Naval laboratory

When L. Raymond Hetche, director of the Applied Research Laboratory, signed a lease Oct. 18, above, the former Inertial Navigation Facility, shown at right, officially became the University's Navigation Research and Development Center.

The center, located in Warminster, Pa., is bonded to bedrock to allow sensor calibration at accuracies unattainable anywhere else in the world.

The center will continue to serve the Navy's needs but also will be available for the first time for non-Department of Defense use, including ARL research on undersea technology.



Faculty/Staff Alerts

LIAS seminars

The University Libraries is offering the following series of seminars for November. To register or learn more about the seminars, send an e-mail to signuip@psu.las.psu.edu.

If you have any additional questions, contact Doris Herr at (814) 863-0325. Information on the seminars can also be found by typing HELP:WORKSHOP when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>. All sessions take place in Tower Room 402, Central Pattee Library.

Penn State Libraries Catalog in LIAS

This seminar offers an overview of the TAC in LIAS and hands-on practice in applying LIAS searching techniques. Nov. 13 from 3-5 p.m.; or Nov. 4 from 1-3 p.m.

Congress and the Legislative Process on the Internet

This seminar provides a general introduction to electronic resources related to the lawmaking activities of Congress. Included are resources for tracking bills

and laws, and the legislative process. Nov. 14 from 8:30 - 10 a.m.

Electronic Text in the Humanities

Participants will receive an overview of textual humanities databases available on the Internet and on CD-ROM and an introduction to the Electronic Text Center in Pattee Library. Nov. 12 from 10 a.m. - noon.

Engineering

This seminar features practice in accessing and searching databases and resources available for research in engineering. Nov. 7 from 3-5 p.m.

Literature Resources on the Internet

Nov. 20 from 10 a.m. - noon.

Music - electronic resources

Nov. 8 from 10 a.m. - noon.

Women's Studies

This seminar features hands-on practice in accessing and searching databases available for research in women's studies. Nov. 7 from 5-7 p.m.

Appointments

Tennis Center welcomes head professional to staff

Kelly Baker, certified as a U.S. Professional Tennis Association Pro since January 1988, has been named head professional at the Penn State Tennis Center.

Previously, he was the head pro at the Blair Racquet Club in Altoona.

A former nationally ranked college player and All Western Athletic Conference standout at the University of Texas at El Paso, Baker has worked with more than 30 nationally ranked juniors in El Paso and Eugene, Ore.

Division of Transportation Services welcomes new director

Teresa A. Davis has been named director of transportation services for Penn State. In the newly created Division of Transportation Services, Davis will direct the operations of both the parking department and Fleet Operations within Business Services.

Davis comes to Penn State from the U.S. Military Academy at West Point, N.Y. As the deputy director of plans and operations for the director of security, she planned and managed parking, traffic movement and police support for daily and special events. In addition, she was responsible for the security of VIP movement to include presidential visits and the safety/security of three million tourists annually.

She obtained her bachelor of science degree from the University of the State of New York while serving in the U.S. Army's Military Police Corps. In 1995, she completed a master's degree in public administration from the John Jay College of Criminal Justice, New York. She is a member of Pi Alpha Alpha, the National Honor Society for Public Affairs and Administration.

Great Valley restructuring includes addition of three academic leaders

In a restructuring designed to strengthen local academic leadership at Penn State Great Valley, three key academic administrative leaders have been appointed. They are:

David J. Fritzsche, academic division head, named management and professor of management and organization; William D. Milheim, associate professor of education, named Academic Division head, education; and David W. Russell, associate professor of electrical engineering, named Academic Division head, engineering.

Fritzsche received his Ph.D. from Indiana University and a master's in industrial administration from the University of Illinois. He has held faculty positions at the Rochester Institute of Technology, Illinois State University, the University of Portland and as chairman of the managerial science department at the University of Nevada at Reno. He has published widely on marketing and business ethics.

Milheim received his Ph.D. in curriculum and instruction and master's in community health edu-

cation from Kent State University. He joined Penn State Great Valley as assistant professor of instructional systems in 1991 after serving on the faculty of Bloomsburg University.

In 1994, he received the College of Education's Outstanding Faculty Award, as well as Penn State Great Valley's Award for Teaching Excellence in 1996. Milheim has published widely on instructional design and education and



William D. Milheim

technology issues.

Russell received his Ph.D. in computer architecture for intelligent control systems from the Council for National Academic Awards (Liverpool Polytechnic, Manchester University and United Kingdom Atomic Energy Authority), United Kingdom. He joined Penn State Great Valley in 1985 after holding faculty positions at several universities in the U.S. and the U.K., including Liverpool Polytechnic, Howard University and Villanova University. He has published widely on artificial intelligence in leading scholarly journals, as well as pioneered several new programs at Great Valley, including a master's program in information science and a collaborative Ph.D. program in software engineering with The University of Wales.

Penn State Great Valley CEO Lawrence S. Cole, in collaboration with the division heads, will serve as the primary administrative leadership for Penn State Great Valley.

ARL associate director to serve at NASA's Ames Research Center

Robert J. Hansen, chief scientist and associate director at the Applied Research Laboratory, is serving for a year as associate director of NASA's Ames Research Center. In this capacity, he is director of NASA's Center of Excellence in Information Technology and of Ames' Information Technology Directorate.

NASA's Center of Excellence in Information Technology is being implemented as a "virtual corporation" involving Ames and the other NASA field centers. Particular emphasis is being given to building partnerships between the NASA research and operations communities, the information technology corporate sector concentrated in Silicon Valley and academic institutions around the country. The goal is to develop solutions to NASA's present and future information technology needs.

Hansen assumed his new post in Mountain View, Calif., under the terms of the Intergovernmental Personnel Act (IPA). The IPA provides for the assignment of university faculty members to the federal government to facilitate federal, state and

local cooperation and to strengthen the management capabilities of government operations. He is scheduled to return to his post at Penn State on Aug. 31, 1997.

Hansen joined ARL in 1992 and has been responsible for the development of an R&D business base outside the laboratory's historic undersea technology arena. Before coming to Penn State, he was deputy director of the Applied Research and Technology Directorate of the Office of Naval Research and second in command of a \$210 million multidisciplinary research program administered by a staff of 60 program managers and support personnel at three sites in the United States.

A magna cum laude graduate of Stanford University, Hansen earned master's and doctoral degrees at the Massachusetts Institute of Technology.

Mont Alto appoints financial aid counselor

Christina Rock recently joined the Penn State Mont Alto Campus staff as a financial aid counselor. Her

duties include handling all financial aid for new and existing students, counseling and resolving financial aid issues and administering campus scholarships and grants. Rock hopes to also offer budgeting and finance workshops for students.

Previously she was employed as branch manager for Citizens National Bank of Southern Pennsylvania, Chambersburg. Before that, she worked as a financial counselor for Consumer Credit Counseling Service of Greater Washington Inc., Hagerstown, Md. She holds a bachelor of science degree in business management from York College.



Christina Rock

University development names executive director

Elaine Dunn Stuhr has been named executive director of University development, a position she has held on an interim basis since June. Her responsibilities include leading a team of fund-raising professionals and supervising all advancement activities for the academic colleges at the University Park Campus, continuing and distance education, the University Libraries and athletics.

Stuhr, who has held several major fund-raising campaigns in her career, joined Penn State as the director of development for the University Libraries in 1995. Before that, she served as assistant dean for development and alumni relations in the School of Law at the University of Oregon, and as the assistant vice president for public affairs and development and executive director of the University of Oregon Foundation.

She also served as director of development for Whitman College from 1981 to 1987, where she led a campaign that raised more than \$50 million and reached its goal two years ahead of schedule.

Stuhr earned her bachelor's degree in psychology from Vanderbilt University and did graduate work in the Graduate School of Management at Georgia State University.



David J. Fritzsche



David W. Russell

The

ARTS

AT PENN STATE

Violinist presents recital

Violinist **Jeffrey Thayer**, a visiting artist at Penn State, will present a recital at 8 p.m. Saturday, Nov. 2, in the School of Music Recital Hall on the University Park Campus. Thayer will be accompanied by pianist **Karen Tanaka** in a program of virtuosic literature.

Jeffrey Thayer

He currently studies with Zvi Zeitlin at the Eastman School of Music. Thayer's past teachers included **James Lyon**, associate professor of violin, and **Raymond Page**, retired professor of viola. Thayer is a recipient of the Stirling Award at Eastman and has twice been the winner of the concerto competition at the Music Academy of the West in Santa Barbara, Calif. He has performed as a soloist with the Nittany Valley Symphony and will be a featured artist with the Williamsport Symphony in January 1997.

The recital is free to the public. For more information call (814) 863-4411.

Women's Choral to sing

The Penn State University Women's Choral, under the direction of **Robert W. Drafal**, instructor of music, will present its annual fall concert at 1 p.m. Sunday, Nov. 3, in the School of Music Recital Hall on the University Park Campus.

The program will feature the premiere of a set of Scottish love songs arranged by **Bruce Trinkle**, associate professor of music.

Tickets are \$5 for adults and \$2 for students and will be available at the door before the concert. For more information, contact the School of Music office at (814) 865-0431.

University Choir concert

The Penn State University Choir will present its annual fall concert, "There Is Sweet Music Here," at 4 p.m. Sunday, Nov. 3, in the School of Music Recital Hall on the University Park Campus.

This unique program features instrumental accompaniment for every programmed work from Phi Mu Alpha Sinfonia fraternity, will accompany Jubilate Deo composed by **Paul Felter**. **David Moore**, soprano oboist, will accompany excerpts from **Stephen Chatman's** "There Is Sweet Music Here." **June Miller**, professor



On display

This and other photographic works of **Mindy Hans** will be on display at the Kern Exhibition Area on the University Park Campus through Nov. 17.

of organ, and student percussionists will assist in the performance of **Mack Wilberg's** "Tres Cans Laudendi." Flautist **Renee Guarnieri** will accompany two works, "Wayfaring Stranger" and "Don't Be Weary Traveler," and **Gregg Goldner**, percussion, will assist in the presentation of the spirituals "Ride the Chariot" and "Freedom Come." **Sine Nomine**, a chamber vocal ensemble from The University Choir, also will perform.

Tony Leach, assistant professor of music and music education, is the conductor of the University Choir. Tickets are \$2 for students and \$4 for non-students and may be purchased at the door.

Flute Ensemble at Bach's Lunch

The Penn State Flute Ensemble, directed by **Eleanor Duncan Armstrong**, associate professor of music, will present a program of chamber music for flutes at 12:10 p.m. Thursday, Nov. 7, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute, free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

The Flute Ensemble consists of 13 members who will perform works

from a baroque, classical and contemporary repertoire. Members of the group will play a wide range of instruments in the flute family: C-flute, alto, piccolo and bass.

Audience members may take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Special exhibit in Kern

The Kern Exhibition Area on the University Park Campus features the photography exhibit of **Mindy Hans** through Nov. 17.

Hans is a senior completing her bachelor's degree in photography. She describes the exhibit as a series of photographs representing her losses and hopes.

Kern Exhibition Area is on the first floor in the Kern Graduate Building. Hours are 8 a.m. to 11 p.m., Monday through Friday; 10 a.m. to 11 p.m., Saturday; and noon to 11 p.m., Sunday.

Art Alley exhibit

The HUB's Art Alley on the University Park Campus features the ceramics, "Persian Pottery" and stained glass exhibit of **Shahnaz Lofli**

through Nov. 17.

Currently living in State College, Lofli creates ceramics that reflect a strong connection to nature. Lofli has exhibited at the Central Pennsylvania Festival of the Arts in 1991, 1995 and 1996.

Folk and classical music

The Penn State Worthington Scranton Campus Cultural Events Series will feature a concert by **Simple Gifts**, a folk ensemble, at 7:30 p.m. Tuesday, Nov. 19, in the Jewish Community Center. For more information, call (717) 963-4311.

Spinner's Web exhibit

The Spinner's Web, a guild of spinners and weavers from across Northeastern Pennsylvania, will exhibit their work through Dec. 1 in the Penn State Worthington Scranton Campus Study Learning Center, Quiet Lounge. The guild will hold a special, free demonstration/reception from 1 to 4 p.m. Sunday, Nov. 3.

Odyssey Literature

On the next episode of **Odyssey Through Literature**, fiction writer **Charlotte Holmes** reads and discusses her latest work, *Gifts and Other Sto-*



BRUCE JORDAN CENTER

Wynonna to perform at Jordan Center Nov. 9

Wynonna, formerly of the performing duo **The Judds** with her mother **Naomi**, will perform a mix of country, pop and soul at The Bryce Jordan Center on the University Park Campus at 8 p.m. Nov. 9, with special guest **Ty Herndon**.

Possibly singing songs from her second album, *Tell Me Why*, Wynonna may also include tunes from her 1992 solo debut album, *Wynonna*, which included the No. 1 single "She Is His Only Need."

Herndon's first single, "What Mattered Most," brought him national recognition, as did his second album, *Living in a Moment*. Herndon, an Alabama native, was named the Texas Entertainer of the Year in 1993.

Tickets are \$21 for the general public, \$19 for students with a valid Penn State ID card, and are available at the Jordan Center Ticket Center, selected Uni-Marts, Penn State campus outlets in Altoona, Erie, Hazleton and Reading, or by calling (814) 865-5555 or toll-free at (800) 863-3336.

Upcoming events

■ **Nov. 2:** Penn State Tailgait Party, four hours before kickoff vs. Northwestern; tickets \$15 for adults; \$10 for children 12 and under.

■ **Nov. 8:** Smashing Pumpkins, 7:30 p.m.; tickets \$26.

■ **Nov. 15:** World Gold Gymnastics Tour, 7:30 p.m.; tickets \$35, \$25 and \$17.50 for adults; children (12 and under) and senior citizens (60 and over) receive a \$3 discount.

■ **Nov. 23:** Penn State Tailgait Party, four hours before kickoff vs. Michigan State; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at The Bryce Jordan Center, or for more information on any event listed here, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu>.

ries, with host **Leonard Rubinstein**.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM, and 106.7 FM in Altoona.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, November 1

Palmer Museum of Art, 2 p.m., Christoffers Lobby, Patrick McGrady, curator of education, "Some Thoughts on the Steidle Collection."

Graduate Student Association, 6:30 and 8:30 p.m. Film, "Stealing Beauty," through Nov. 2.

Graduate Student Association, 6:30 and 8:30 p.m. Film, "Maybe ... Maybe Not," through Nov. 2.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. Brian Friel's "Philadelphia, Here I Come!"

Saturday, November 2

Palmer Museum of Art, 11:30 a.m., Christoffers Lobby. Gallery Talk presents Jennifer Streib on "Highlights of the Palmer Museum."

School of Music, 8 p.m., Recital Hall. Guest Artist Recital presents Jeffrey Thayer, violinist.

Sunday, November 3

School of Music, 1 p.m., Recital Hall. Women's Choral, Robert Drafil, director.

School of Music, 4 p.m., Recital Hall. "Penn State University Choir," Anthony Leach, conductor.

Tuesday, November 5

School of Music, 8 p.m., Recital Hall. Penn State Trombone Choir/University Brass, Mark L. Lusk, director.

Thursday, November 7

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch Concert presents "The Penn State Flute Ensemble."

Friday, November 8

Gallery Talk, 3 p.m., Palmer Museum of Art, Christoffers Lobby. Catherine Clemen on "Ancient to Renaissance Art of the Palmer Museum."

School of Music, 8 p.m., Recital Hall. "Opera Intermesso," Susan Boardman, director. For tickets, call (814) 865-0431.

Graduate Student Association, 6:30 and 8:30 p.m., 112 Kern Hall, "Cold Comfort Farm," through Nov. 9.

Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "Unforgettable Summer," through Nov. 9.

Saturday, November 9

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Lewittzky Dance Company." For tickets, call (814) 865-0255.

Sunday, November 10

School of Music, 2 p.m., Recital Hall. "Penn State Oriana Singers," Lynn Ellen Drafil, conductor. For tickets, call (814) 865-0431.

Center for the Performing Arts, 2 and 4 p.m., Eisenhower Auditorium. "Cathy and Mary," For tickets, call (814) 865-0255.

School of Music, 4 p.m., Recital Hall. "Opera Intermesso," Susan Boardman, director. For tickets, call (814) 865-0431.

School of Music, 8 p.m., Recital Hall. "The Penn State Flute Ensemble," Eleanor Duncan Armstrong, director.

SEMINARS

Friday, November 1

Jewish Studies, 10 a.m., 306 Burrows. Normal L. Kiehl on "The Body of Alfred Dreyfus: A Site for France's Displaced Anxieties of Masculinity, Homosexuality and Power."



At the Palmer

"Beehive Coke Oven Plant," an oil on canvas, is one of the paintings from the Steidle Collection on display at the Palmer Museum of Art on the University Park Campus. The exhibition, "When Coal Was King," will be at the museum through Dec. 8.

Health Policy and Administration, 3:30 to 5 p.m., 101 East Henderson. J. Bruce Davis on Canada's health care system.

Geography, 4 p.m., 206 Walker. Lynn Staeheli on "Community, Place and Citizenship: Local Politics in a Transitional Era." Center for Women Students, 7:30 p.m., 101 Kern. Iris Young on "Should Feminists Resist the Idea of Home?"

Monday, November 4

Comparative Literature, 12:15 p.m., 101 Kern. Sydney Abou-Hosn on "Why Doesn't She Speak? The Feminine Rejection of Narration From Poets to Gliman."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Shawn Duffy on "Evaluation of the Computer-Controlled Shear Cell (CCSC) Dynamic Yield Locus Tester," and Greta Martin on "The Effect of Compost Materials and Methods on House Fly Propagation."

Physics, 3:30 p.m., 339 Davey Lab. Tom Lubensky on "Hedgehogs, Topological Dipoles and Chains in Nematic Emulsions."

Tuesday, November 5

Recreation and Park Management/Leisure Studies, 9 a.m., 112 Bushnell Lab. John Robinson on "Why Americans Are Working Fewer Hours But Think They're Working More."

Materials Science and Engineering, 10 a.m., Coal Utilization Lab, Room C-213. Donald F. McMillen on "Comparing H-Transfer in Coal Liquefaction, Heavy-Oil Upgrading and Polymer Degradation as Basis for Improving CoProcessing Options."

Physics, 3:30 p.m., 339 Davey Lab. Ismail Zahed on "Elementary Particles and Fields."

Economics, 4 p.m., 420 Kern. Pankaj Ghemawat on "Strategy."

Geosciences, 4 p.m., 112 Walker. Lonnie Thompson on "Ice Core Records from Tropical Mountain Glaciers."

Nutrition, 4 p.m., 110 Warlick Lab. Rebecca Corwin on "Excessive Food Consumption in the Rat: Some Environmental Contributions and Physiological Consequences."

Wednesday, November 6

Center for Women Students, noon to 1 p.m., 120 Bouckee. CWS Resource Room. Laurie L. Cohen and Luan Hyers on "Everyday Sexism and Racism at Penn State." Gerontology Center, noon to 1 p.m., 101 Health and Human Development East. Hayden Bosworth on "Terminal Change: Cognitive Function and Sociodemographic Factors in the Seattle Longitudinal Study."

Materials Science and Engineering, 1 p.m., Coal Utilization Lab, Room C-213. Donald F. McMillen on "Field Ionization Mass Spectrometry of Coals and Coal Pyrolysis and Liquefaction Products."

Engineering Mechanics, 3:35 p.m., 214 Hammond. Osama Awadelkarm on "Microelectromechanical Systems."

Center for Ethics and Religious Affairs, 7:30 p.m., 101 Kern. Conrad Cherry on "The Role of Religion in the Global University."

Thursday, November 7

Materials Science and Engineering, 10 a.m., Coal Utilization Lab, Room C-213. Donald F. McMillen on "Retrograde Reactions of Oxygen Functions in Coal Structures." Ceramics, 11 a.m., 301 Steidle. Yet-Ming Chiang on "The High Temperature Colloid Chemistry of Liquid Phase Sintered Materials."

Center for Russian and East European Languages, noon, 124 Sparks. Irene Hurd on "Doing Business in Russia: A Woman's Perspective."

Women in the Sciences and Engineering Institute, 2 p.m., 305 Hetzel Union Building. Catherine Jay Diving on "Capitalizing on One's Abilities: Moving Up the Scientific Ladder."

Physics, 3:30 p.m., 101 Osmond Lab. Juan Maldacena on "Black Holes in String Theory."

Ecology, 3:45, 106 Bouckee. Marlene Zuk on "Singing under pressure: acoustically-orienting parasitoids and their cricket hosts."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Mic Bowman on "Managing Complexity in Wide-Area File Systems."

Food Science, 4 p.m., 117 Borland Lab. Lynn Brown on "Sabbatical at University of Minnesota-Reflections."

Friday, November 8

Accounting, 3:30 to 5 p.m., 333 Beam. Jagannathan on "Litigation Risk and Auditor Resignations."

Economics, 3:30 p.m., 420 Kern. Horst Ralf on "Optimal Export Policy in the Presence of Informational Barriers to Entry and Imperfect Competition."

Geography, 4 p.m., 206 Walker. Dennis Thomson on "Selling (?) Science to Skeptics."

Spanish Club, 7 p.m., Palmer Museum of Art, Lipson Auditorium. Javier Escudero presents a slide show on Peru.

Monday, November 11

Comparative Literature, 12:15 p.m., 101 Kern. Chiyo Kawaikami on "Tokyo: Hybrid Narrative Space in the Works of Izumi Kyoka (1873-1939)."

CONFERENCES

November, November 4

Pasteurizer Operator's Workshop, Nittany Lion Inn, through Nov. 6.

NCA Chocolate Handling Workshop, Nittany Lion Inn, through Nov. 6.

Tuesday, November 5

Mammalian Cell Culture Methods, 8:30 a.m., Frear Lab, through Nov. 8. To register, call (800) PSU-TODAY.

Saturday, November 9

Gender Equity conference, The Penn State Scenic Center. Keynote address, "Empowering Ourselves and Others," Sabrina Chapman.

EXHIBITS

THE HUB ART ALLEY

Drawings by Christine Meyer, through Nov. 17.

Ceramics and stained glass by Shahnaz Lofit, through Nov. 17.

Kern Exhibition Area

Coin art and jewelry by Claire Allison Ruliser, through Nov. 17.

Photography by Minday Hars, through Nov. 17.

North Halls Cultural Lounge

"The Return of Jehu" by Michael Christy, through Nov. 1.

Palmer Museum

"Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5.

Reflects an international perspective.

CQI

**CONTINUOUS
QUALITY
IMPROVEMENT**

Deans sponsor two CQI teams

New CQI teams in the Graduate School and in the College of Health and Human Development will soon receive their charges from their respective deans. In the Graduate School, a team will study the processes involved in decentralizing admissions and developing an electronic graduate student application form. Rod Erickson is the team sponsor. Cindy Nicotia is the leader and Barbara Sherlock will facilitate the team. Team members are Jean Courter, Leslie Frye, Becky Halpeny, Beth Haupt, Don Hogg, Shawn Kuhlman and Jodi Stover.

The flow of work through the dean's office in the College of Health and Human Development is the process being studied by a team under the leadership of Jerome Itinger. Barbara Shannon is the team sponsor and Barbara Sherlock is the facilitator; team members are David Dimmick, Kathryn Kensinger, Marianne Kuhns, Cindy Sackett and June Stine.

Retention workshop

For the past two years, the Central Enrollment Management Group CQI Team on Undergraduate Retention, led by John Cahir and facilitated by Jack Gido, has surveyed non-returning students to determine their reasons for leaving Penn State. The reasons cited most often were: financial problems; availability of major; quality of advising; distance from home; and courses not available. As a result of the team's findings, all campuses have appointed retention coordinators. In addition, the Second Annual Eastern Region Retention Workshop will be held on Nov. 4 at the Schuylkill Campus.

Quality Expo '97

If you are interested in becoming a member of the Quality Expo '97 Planning Team, please contact Carol Everett, c1e2@psu.edu. The fifth annual expo will be on April 17, 1997.

For additional information about continuous quality improvement, please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, (814) 863-8721 or les1@psu.edu.

Seminars offer tools, strategies for use in new learning environments

Many Penn State units offer seminars, symposia and discussion groups focusing on tools and strategies for teaching, learning, computing, collaboration, communication and research. Here is an overview of what is available. Faculty and staff also may want to check with their own college or department, or at their own campus, about local support services.

Many seminars are free of charge. Registration usually is required because of limited seating.

Center for Academic Computing

The Center for Academic Computing (CAC) offers seminars and symposia on software, World Wide Web, electronic publishing, visualization, high-performance computing and teaching with technology. To access a seminar listing or register for CAC seminars, start at the Penn State home page, <http://www.psu.edu/>, go to computing, then classes and seminars, then academic computing seminars.

For copies of the fall CAC seminar guide, send e-mail to seminars@psu.edu or call (814) 863-4356. To request customized teaching and learning with technology seminars for your academic department, call Carol Dwyer at (814) 863-7765 or e-mail cad6@psu.edu.

Center for Learning and Academic Technologies

The Center for Learning and Academic Technologies (C-LAT) of the Commonwealth Educational System provides support for transforming the teaching/learning environment throughout the CES into one characterized by learner-centered, active and collaborative instruction.

For information on current initiatives contact C-LAT by e-mail at clat@psu.edu, by phone at (814) 863-5512, or visit the C-LAT Web page at <http://www.clat.psu.edu>.

Center for the Study of Higher Education

The Center for the Study of Higher Education examines issues that affect the policies and practices of post-secondary institutions and their implications for leadership, planning and general administration. The center's current studies include faculty roles and rewards, the effects of institutional curriculum and the effects of coursework patterns on student learning.

For more information or to make an appointment to discuss your project, call Jim Ratcliff, director, at (814) 865-6347, e-mail jlr7@psu.edu or fax (814) 865-3638.

Computer Learning Center

The staff of the Computer Learning Center conducts seminars on introductory computer skills and some software packages. Individual consultation is offered to help beginners learn to use Macintosh and IBM computers. The Computer Learning Center, in cooperation with the Office of Disability Services, provides equipment for individuals with visual, motor or learning impairments.

For further information on seminars and services, contact the Computer Learning Center at (814) 863-9627.

Department of Distance Education

The Department of Distance Education, Continuing and Distance Education, offers seminars, brown-bag meetings and conferences on the design and develop-

ment of distance learning environments. For more information see the department's 1996-97 programming at <http://www.cde.psu.edu/DE/FacDev/Faculty.html> or contact Nancy Hallberg at (814) 865-5403 or ndw1@psu.edu.

A daylong workshop titled "Videoconferencing and Beyond: Creating a Virtual Classroom" is available via PictureTel upon request. For more information, contact Ann Taylor at (814) 863-8294 or atb3@cde.psu.edu.

IDP Center for Excellence in Learning and Teaching

The IDP Center for Excellence in Learning and Teaching (formerly the Instructional Development Program) of the Office of Undergraduate Education supports instructional improvement by providing programs, services and information. Services include a 10-week course in college teaching, new instructor orientation, mid-semester feedback activities and a series on diversity.

Additional information and online resources are available at <http://www.psu.edu/80/academic/ue/> IDP Homepage page. To be added to the center's mailing list, call (814) 863-2599, e-mail uidp@psu.edu, or write to 401 Grange Building, University Park.

Schreyer Institute for Innovation in Learning

The Schreyer Institute for Innovation in Learning promotes partnerships among students and faculty to design and conduct active, collaborative, problem-focused learning experiences which foster inquiry, initiative and teamwork. The Schreyer Institute co-sponsors the "V.O.I.C.E. Box" (Varieties of Innovative Changes in Education), lunchtime discussions devoted to pedagogical issues such as team projects in large classes and authentic assessment of student learning.

For more information, contact the institute by phone at (814) 865-8681 or e-mail at inov8@psu.edu. See its Web page at <http://www.inov8.engr.psu.edu/>.

University Libraries

The University Libraries offers seminars on searching techniques and databases accessible through the Library Information Access System (LIAS), on CD-ROM and on the Internet. (See Faculty/Staff Alerts on page 6.) The Libraries also offers discipline-specific seminars on World Wide Web searching and local and remote databases.

To register or learn more about the seminars, send e-mail to signup@psulias.psu.edu. If you have any additional questions, contact Doris Herx at (814) 863-0325. Information on the seminars can also be found by typing HELP WORKSHOP when using LIAS.

Wagner Computer Training Center

The Wagner Computer Training Center offers topics such as basic computer use, word processing, page layout, graphics, spreadsheets, databases and multimedia. These courses are joint offerings with the Human Resource Development Center and the Center for Academic Computing.

For a course schedule call (814) 865-8216 or send e-mail to wgs1@psu.edu. For additional information about the content of these programs or to request individualized training programs, call (814) 863-7491 or send e-mail to Wagner-lab@psu.edu.



Manicure

Ward Studebaker, horse farm unit manager in the Department of Dairy and Animal Science, College of Agricultural Sciences, files Lucky Zip's hoof at the new horse barn at Farm 16 on the University Park Campus.

Photo: Greg Grieco

Funds will help preserve historical agricultural development information

The University has received a grant of \$117,214 as one of nine land-grant libraries across the U.S. that has joined with the U.S. Agricultural Information Network to identify and preserve historical literature about agricultural development and rural life from 1820-1945. Part of the "National Preservation Program for Agriculture Literature," the project is funded under a subcontract from Cornell University, supported by a grant from the National Endowment for the Humanities.

Historical Pennsylvania literature will be identified and then ranked by a panel of scholars to ensure that at least the top ranked 22.5 percent of publications will be preserved through microfilming efforts. The Penn State panel includes **Jerome K. Pasto**, professor emeritus of agricultural economics and rural sociology, College of Agricultural Sciences; **Sally McMurry**, associate head of the Department of History; and **Vladimir Micuda**, retired associate librarian and chief of the sciences and technology department.

The results of this two-year project will be made available to researchers and scholars across the country through the Online Computer Library Center database beginning in January 1997.

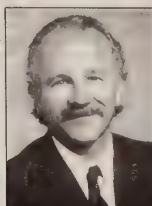
H&HD chooses president of Nike as Alumni Fellow

Thomas E. Clarke, president and chief operating officer of Nike Inc., has been named an Alumni Fellow, the highest honor awarded by the Penn State Alumni Association.

Clarke received his doctorate in biomechanics from the College of Health and Human Development in 1980. While at Penn State, Clarke analyzed the way pressure is distributed throughout the foot while walking.

After graduating, Clarke began his Nike career as a researcher in the Nike Sports and Research Laboratory, Exeter, N.H. In 1983, he was promoted to director of product development, and in 1984 relocated to Nike's headquarters in Beaverton, Ore., to assume the directorship of Nike's Sports Research and Development Center.

During the next four years, he rapidly



Thomas E. Clarke

advanced through the footwear research and marketing division, and was named corporate vice president of marketing in 1989. In 1993, Clarke moved on to become the company's general manager and in 1994, he assumed his duties as Nike's president.

Nike is ranked as the world's No. 1 sports and fitness company, with sales surpassing \$4 billion. Under Clarke's guidance, Nike has launched award-winning advertising campaigns such as the 1988 "Just Do It!"

campaign. In addition, he has helped to define new categories of sport, including cross-training and outdoor cross-training.

Clarke, a New York state native and marathon runner, received his bachelor's degree from the University of Albany. In 1977, he graduated with a master's degree in biomechanics from the University of Florida.

NIH awards \$2 million to study effects of middle ear infections

The College of Health and Human Development has been awarded a \$2 million grant from the National Institutes of Health to test hypotheses about the effects of middle-ear infections on young children's behavior and language development.

The five-year study, directed by **Lynn Vernon-Feagans**, professor of human development and associate dean for research in the college, explores in more depth the results from a previous longitudinal grant begun in 1988. Collaborators on the new study are **Thomas Frank**, professor of communication disorders, and **Elizabeth Manlove**, associate professor of human development and family studies.

Middle-ear infection, or otitis media, is the most frequently diagnosed disease in preschoolers. Otitis media usually develops from a buildup of fluid in the middle ear space behind the eardrum. Although the acute form of the disease is treatable, the fluid can remain in the ear for months, often resulting in mild to moderate temporary hearing loss. Research has suggested that chronic otitis media can affect speech, language and social behavior in young children.

The study will follow 200 local children

from infancy to 3 years of age in daycare settings. Researchers will travel to each daycare site in a 27-foot mobile van specially outfitted with a sound-treated child hearing suite containing state-of-the-art equipment for hearing testing. In addition to hearing and language testing, children will be examined weekly by a pediatric nurse for general signs of illness and ear infection symptoms. They also will be observed periodically for changes in social and communicative behavior at home and at daycare. Parents will be asked about their child's language development and behavior changes over time.

The researchers hope to determine the influence of risk and protective factors on whether otitis media and the accompanying hearing loss has negative developmental outcomes for the children. Environmental influences in the home and in daycare will be measured to understand whether these settings protect children from the negative effects of otitis media or intensify the problem.

Implications from this study will help both parents and daycare centers do a better job of preventing the developmental problems associated with chronic otitis media.

Grant to aid study on learning productivity

The Center for the Study of Higher Education at Penn State was recently awarded a three-year grant by the U.S. Department of Education, Office of Educational Research and Improvement, to conduct a study on enhancing faculty contributions to learning productivity. The \$720,694 award is co-directed by **James Fairweather**, professor and senior scientist, and **Carol Colbeck**, assistant professor and research associate.

The pair's study will identify policies and practices at the departmental and institutional levels that may lead to changes in the contexts of faculty work and increases in undergraduate learning. This grant was one of six awarded by the National Institute on Postsecondary Education, Libraries and Lifelong Learning. Fairweather and Colbeck's study received the second largest award of the six given.

Nursing associate degree program accredited

The School of Nursing in the College of Health and Human Development has received full initial accreditation of its associate degree program in nursing by the National League for Nursing. The associate degree program was approved by the Pennsylvania State Board of Nursing in 1993 as one of the preliminary requirements toward accreditation.

The School of Nursing now offers three state-approved and accredited

nursing programs at the associate, baccalaureate and master degree levels. Faculty and students are located at nine different locations, making it one of the largest units at Penn State. More than 70 full-time faculty serve nearly 1,000 students at various program sites.

"While not required, schools of nursing which receive accreditation demonstrate that they have met specified criteria for the maintenance and enhancement of educational quality," Sarah Guelandner, director of the School

of Nursing, said. "Accreditation also indicates to the public and others in the nursing education community that a program has established appropriate educational objectives and provides a supportive environment for students and the fulfillment of these objectives."

The National League for Nursing currently accredits 1,655 programs in nursing education, including practical/vocational, diploma, and associate, baccalaureate and master's degrees. These programs enroll 286,000 stu-

dents in colleges, universities, community colleges, hospitals and clinics, and freestanding institutions devoted to nursing education.

Penn State's associate degree program in nursing is currently offered only through the University's Commonwealth Educational System at the Altoona, Fayette, Mont Alto and Worthington Scranton campuses. Each location has its own nursing facility, although the program content is identical at each site.

As usual, retirees play major role for the United Way

Penn State retirees continue to play a valuable role in the University Park United Way Campaign.

"Retiree participation has become very, very important," Tim Curley, campaign chair, said. "Under the leadership of Leon Kneebone, retiree involvement in our United Way campaign has grown significantly over the last several years."

"Their goal this year is \$58,000, which is a key portion of our overall campus-wide goal of \$450,000. Contributions of Penn State retirees will be a major factor in the success of our campaign."

Kneebone, professor emeritus of botany and plant pathology, has a record of 42 consecutive years of service to the United Way. He has served the Centre County United Way in a wide variety of capacities, including president of the board of directors. In recognition of his contributions, the agency's volunteer award has been named the "Leon Kneebone Award for Extraordinary Volunteerism."

He has been chair of the Penn State Retirees Division since retirees were invited to be a part of the University Park campaign five years ago.

"Prior to that time, retiree contributions were included in the special gifts division that applied to a broad community category," he said. "The decision to include retirees in the University Park campaign has been, in my mind, mutually advantageous."

"We in the United Way are very happy since I estimate retirees will be contributing approximately \$60,000 this year. And, from the University's standpoint, it is one more way that retirees can be a part of the University family."

According to Karen Rugh, coordinator of the United Way campaign at University Park, Penn State is the only Big Ten university that specifically targets retirees for United Way campaigns.

"Our retirees' contribution is a significant portion of the campaign goal and is made, I believe, primarily out of loyalty to Penn State," she said. "Including retirees in our campaign also has provided an excellent means of keeping good United Way supporters in the system."

Paul Rigby, associate dean emeritus in The Smeal College of Business Administration is assisting Kneebone this year as co-chair of the Retirees Division and will become chair next year.



In full bloom

Tony Onies, a greenhouse technician at Mueller Lab on the University Park Campus, waters a *cycas revoluta* in the greenhouse he cares for. The plant, commonly known as a sago palm, is 150 years old and was acquired from a conservatory in the Boston area more than 50 years ago. This is the first time the plant has flowered.

Photo: Greg Grieco

University, Michigan State square off for annual blood donor challenge

The University is once again involved in the Penn State-Michigan State Blood Donor Challenge. The third annual event, which will take place Nov. 11 to 22, is a way to help the American Red Cross build blood supplies for the final six weeks of the year, a traditionally difficult time to keep blood in stock because of the holidays.

The challenge is a contest between Penn State and Michigan State to see which school will have the most blood donated in the two-week period preceding the football game between the two schools. The series stands at 1-1, with Penn State winning last year's contest. This year's winning school will be announced at the football game Nov. 23 at University Park. Coach Joe Paterno serves as honorary chairman of the Penn State effort.

Penn State's goal is to generate 1,800 to 2,000 pints of blood — roughly a three-day supply — for the Johnstown Region of the American Red Cross, which includes State College.

For more information or to make an appointment to donate, call (814) 237-2713.

Blood Donor Challenge dates and locations:

Nov. 11	Waring	1-7 p.m.
Nov. 12	Fisher (East)	1-7 p.m.
Nov. 13	Atherton	1-7 p.m.
Nov. 13	Warnock	1-7 p.m.
Nov. 14	Pollock	1-7 p.m.
Nov. 15	Simmons	1-7 p.m.
Nov. 17	Fisher (East)	11 a.m. to 4 p.m.
Nov. 18	Kern	10 a.m. to 4 p.m.
Nov. 19	HUB Ballroom	10 a.m. to 4 p.m.
Nov. 20	HUB Ballroom	10 a.m. to 4 p.m.
Nov. 21	HUB Ballroom	10 a.m. to 4 p.m.
Nov. 22	HUB Ballroom	10 a.m. to 4 p.m.

Senate debates alcohol resolution

By ALAN JANESCH
Public Information

The University Faculty Senate last week sent back to committee a proposed resolution that acknowledged the negative impact excessive alcohol consumption has on the learning environment and urged Penn State faculty to eliminate practices that appear to condone or enable the abuse of alcohol or other drugs.

During substantial debate on the resolution, Senate members agreed that the Senate needs to take a stand on the issue of excessive alcohol use. But some members described the proposed resolution as "vague," "anemic" and "imprecise," and characterized it as "mush" and "pretentious prattle."

One Senate member, Robert Heinsch, a professor of mechanical engineering, said the University should be "courageous" and stand enforcing existing rules that authorize probation, suspension and other penalties for violating University rules on alcohol possession and consumption.

The resolution was originally introduced by the Senate's Committee on Student Life at the Senate's Sept. 10 meeting (Intercom, Sept. 19). Under Senate bylaws, it had to sit on the table for at least 30 days before it could be brought up for a vote. The resolution offered at the Oct. 22 meeting read:

"The faculty of The Pennsylvania State University acknowledge that excessive drinking of alcohol has a negative impact on the learning environment. We resolve that faculty should play a positive role in influencing student behavior by eliminating practices which appear to condone, encourage, or enable alcohol or other drug abuse. At the same time, we resolve to encourage students to take responsibility for their own behavior."

Before voting to send the resolution back to committee, the Senate considered and rejected an amendment that would have replaced the second sentence of the proposed resolution. The amendment read, "We resolve that faculty should hold students responsible for the consequences of alcohol and drug use and that the University should provide services for overcoming the abuse of alcohol and other drugs."

The amendment was rejected by a 78-50 vote. Following that, the Senate voted to charge the committee with rewriting the resolution to address more specifically the positive role faculty can play, appropriate boundaries for acceptable and unacceptable behavior, and the consequences of alcohol and drug abuse.

In other business, the Senate:

- Heard a presentation from former Senate Chair Peter Jurs on the series of open meetings the University Planning Council is holding to gather input on ways to achieve greater academic quality in spite of financial constraints (Intercom, Oct. 24).

- Heard or received informational reports on intramural and club sports in the Commonwealth Educational System, insurance and benefits, Pattee Library expansion plans, the work of the Senate's Special Committee on General Education (Intercom, Sept. 19), and the mid-semester evaluation process.

- Began the meeting with a moment of silence for **Melanie Spalla**, a Penn State student killed in the Sept. 17 shooting on the HUB lawn.

The Senate will hold its next meeting Dec. 3, at 1:30 p.m., in Room 112 Kern Building on the University Park Campus.

Applicants sought for Great Valley CEO

A search committee has been appointed to identify candidates for the position of center executive officer and associate dean of the Graduate School at the Great Valley Graduate Center. **Michael Reischman**, associate dean for graduate studies and research in the College of Engineering at the University Park, will chair the committee.

The CEO/associate dean reports to the dean of the Graduate School and is responsible for providing academic and administrative leadership for the Great Valley Graduate Center, which currently enrolls about 3500 students in professional master's degree programs in the fields of education, engineering, information systems and management. The center currently has 30 full-time faculty, 40 part-time faculty and an administrative/technical staff of about 75, with an annual operating budget of nearly \$10 million. The center has served the greater Philadelphia and Tri-State region for more than 30 years and has established a reputation for excel-

lence in its professional graduate degree programs. It is located in the rapidly growing corridor of science and technology businesses in northwestern Philadelphia near Malvern, Pa.

Candidates for this position should have academic credentials appropriate for a tenure professorship at university with a record of substantial accomplishment in teaching, research and service; proven administrative and leadership abilities; experience in fiscal management; an understanding of the unique mission of graduate professional education; a commitment to diversity; and the ability to interact effectively with a variety of individuals representing area professional and community organizations and businesses, as well as alumni.

Nominations and applications, accompanied by a resume or equivalent information, and the names, addresses and phone numbers of four referees should be submitted to **Michael Reischman**, Chair of the Search Committee,

Great Valley CEO/Associate Dean, The Pennsylvania State University, 114 Kern Graduate Building, University Park, Pa. 16802. Applications and nominations will be reviewed beginning Dec. 15, and will be accepted until the position is filled.

Members of the search committee are (from Great Valley): **Janice Dreachlin**, associate professor of health care administration; **Carla Holway**, acting director of graduate program administration; **Alison Jones**, director of continuing education; **James McCool**, associate professor of industrial engineering; **William Milheim**, academic division head and associate professor of education; **Eric Stein**, associate professor of management information systems; and (from University Park) **Robert Nicely**, associate dean for outreach and faculty development in the College of Education; and **Glenn Pitman**, associate dean for professional master's program in The Smear College of Business Administration.

Competition under way for two Graduate School awards

The annual competition for both the Graduate Faculty Teaching and Graduate Assistant Teaching Awards is under way. These awards are given annually by the Graduate School to recognize outstanding teaching service by graduate faculty and graduate faculty, respectively.

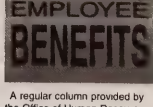
The Graduate Faculty Teaching award recipient is honored with a \$500 prize, accompanied by a plaque. Nominations for this award can be made by both students and faculty and should be forwarded to the professor-in-charge of the respective program. Each graduate program is allowed to forward one nomination for considera-

tion. To be eligible for this award, the faculty member must have been a tenured member of the graduate faculty for at least seven years and should have demonstrated excellence in the supervision of graduate students with theses. Faculty members who have been recognized for teaching excellence by other University competitions such as Evan Pugh or distinguished professorships are not eligible.

Ten teaching assistants are honored with the Graduate Assistant Teaching Award, which includes a \$500 stipend and a plaque. This program is co-sponsored by the Graduate School and the Division of Under-

graduate Studies. To be eligible for nomination, the graduate student must have served as a graduate assistant for at least two semesters within the last two years. Degree candidates carrying the title of instructor are not eligible. Faculty, staff and students may nominate two graduate assistants per program for this award.

Departmental submission of nominations for both awards should be submitted to the Office of Graduate Fellowships and Awards by Dec. 2. Questions regarding either award should be addressed to that office, 313 Kern Building, University Park, Pa. 16802, (814) 865-2514.



A regular column provided by the Office of Human Resources

Enrollment time is here

The enrollment period for 1997 benefits coverage, which extends from Nov. 1 to 27, will give faculty and staff the opportunity to switch from one medical plan to another and to make other benefits elections. Enrollment packets containing benefits information were sent by campus mail this last week to all full-time faculty and staff and included a personalized benefits statement indicating the University benefits programs in which the employee is currently enrolled.

A flexible benefits election form for 1997 also was included. Faculty and staff members who wish to enroll in Flexible Benefits Option I (contribution conversion), Option II (health care expense reimbursement) or Option III (dependent care reimbursement) may do so. Those already enrolled who wish to continue participation in Flexible Benefits Option II or Option III must complete the flexible benefits election form for 1997. This isn't necessary for those already participating in Flexible Benefits Option I who wish to continue that benefit. Forms for plan changes or flexible benefits options must be returned to the Employee Benefits Division no later than Nov. 27.

For more information, contact the Employee Benefits Division at (814) 865-1473. If a faculty or staff member wishes to change name, address or dependent information, separate forms are needed and available on request. Forms for these specific changes may be returned at any time.

Benefits open houses

In conjunction with the annual benefits switch enrollment period, informational benefits open houses will be held from 8 a.m. to 4:30 p.m. Nov. 6 and 22, in 101 Kern Building on the University Park Campus. Representatives from the Employee Benefits Division will be available to answer questions. Representatives will be available from HealthAmerica—HealthAmerica HMO, Healthpass PPO, Plan Medical Plans; Express Scripts pharmacy plan; National Vision Administrators; RiteCare Pharmacy; Equitable, VALIC, Vanguard, TIAA-CREF and Fidelity; SERS and TIAA-CREF retirement plans; Child Care Services; and Faculty/Staff Health Promotion Division.

Faculty and staff at other locations, including The Hershey Medical Center, will have an opportunity to attend benefits sessions at their locations. The times and dates for these sessions will be announced.

Penn Staters

Ronald F. Abler, professor emeritus of geography, has been awarded the 1996 Victoria Medal of the Royal Geographical Society and the Institute of British Geographers for his contributions to human geography and the enhancement of links between British and American geography. Abler is currently the executive director of the Association of American Geographers.

The Victoria Medal was named for Queen Victoria and established in 1902. Over the years it has been awarded to some of the world's best known and distinguished geographers.

Micaela Amato, associate professor of art and women's studies and area head of painting and drawing in the College of Arts and Architecture School of Visual Arts, moderated the plenary session of the 1996 Feminist Art and Art History Conference at Barnard College, Columbia University, New York City. The topic of the session is the title of her paper, "The Politics of Clarity and Accessibility."

Russell R. Barton, associate professor of industrial engineering, presented a paper at the CIRP International Conference on Production Research in Como, Italy. Authors of the presentation "Feedback of Manufacturing Experience for DFM Design Rules" are Professor Irving Ham, Barton and Youngsup Joo of Daewoo Corp.

Four College of Engineering faculty members representing the Center for Gas Turbine and Power participated in the American Society of Mechanical Engineers' Turbo Expo '96 held in Birmingham, England.

Cengiz Camci, associate professor of aerospace engineering, served as vice chairperson of a session and presented two papers. **Budugur Lakshminarayana**, Evan Pugh professor of aerospace engineering and director of the center, presented four papers. **Alok Sinha**, associate professor of mechanical engineering, chaired a session; and **Savas Yavuzkurt**, associate professor of mechanical engineering, presented two papers.

Roselyn Costantino, assistant professor of Spanish at the Penn State Altoona Campus, gave an invited lecture at the National Autonomous University of Mexico on "Theatre and Performance Art in Mexico: The Changing Times."

Refik Culpin and **Ching-Chung Kuo** of the School of Business Administration at Penn State Harrisburg, presented a paper on "Predicting Multinational Corporate Performance: An Empirical Inquiry," at the 16th Annual International Symposium on Forecasting held in Istanbul, Turkey.

Stefanie Field, assistant professor of sociology at Penn State Harrisburg, earned the George Herbert Ryden Prize for the outstanding doctoral dissertation in the social sciences from the University of Delaware. Her dissertation was titled "Shadow Lives, Everyday Lives - A Study of New York City's Undocumented Irish Immigrants."

Andris Freivalds, professor of industrial engineering, participated in the Third International Symposium on Ergonomic Guidelines & Problem-Solving and also attended the International Society of Occupational Ergonomics and Safety Conference in Zurich, Switzerland. He presented a paper titled "Ergonomic Design of Small Spring-Loaded Press."

John Gamble, professor of political science and international law at Penn State Erie, The Behrend College, has been appointed a delegate representing the American Society of International Law to the American Council of Learned Societies (ACLS). The ACLS is a 79-year-old confederation of almost 100 scholarly organizations.

Larry Gamm, associate professor of health policy and administration and director of the Health Administration Program, was elected to the board of the Association of University Programs in Health Administration. Gamm gave an invited presentation at the annual meeting of the association titled "The Pursuit of Community and Health in Leadership for Community Health Partnerships."

Henry A. Giroux, Waterbury Chair professor of secondary education, gave the keynote speech, "The Role of Academic Intellectuals in Revitalizing the Discourse of Democracy and Social Justice in the 20th Century," at the International Forum on Values and Ideology held in Zacatecas, Mexico. Giroux also gave the keynote address at the 15th International Human Science Conference in Halifax, Nova Scotia. His speech was titled "Race and Violence in the Films of Quentin Tarrantino: Implications for a Cultural Politics."

R. Reginald Hardy Jr., professor of mining engineering and director of the Pennsylvania Mining and Minerals Research Institute, presented two papers at the Fourth Conference on Mechanical Behavior of Salt at Ecole Polytechnique, Montreal. The papers were titled "Acoustic Emission in Salt During Elastic and Plastic Deformation" and "Strength and Acoustic Emission in Salt Under Tensile Loading."

While in Montreal, Hardy also attended the Second North American Rock Mechanics Symposium where he served as co-chairman of a session and presented "Laboratory Study on Acoustic Emission and Particle Size Distribution During Linear Cutting of Coal."

William A. Henk, head of the Division of Behavioral Sciences and Education at Penn State Harrisburg, has been appointed to the publications committee of the International Reading Association, the world's largest literacy organization. The Publications Committee assists in the development and evaluation of the association's extensive publication program including four international literacy journals, a major book publishing program and a new online journal.

Kwang-Jae Kim, assistant professor of industrial engineering, presented a paper at the 1996 Asia Pacific Decisions Sciences Institute Conference in Hong Kong, titled "Quality Function Deployment for Optimizing Product Designs: Concepts, Methods and Models."

Manfred Kroger, professor of food science, was named a Fellow of the Institute of Food Technologists and was cited as "a master teacher at Penn State, a researcher with lifelong devotion to fermented milk products and an outstanding science communicator for the Institute of Food Technologists."

Budugur Lakshminarayana, Evan Pugh professor of aerospace engineering and director of the Center for Gas Turbine and Power, received the 1996 American Society of Mechanical Engineers Fluids Engineering Award "for major contributions in the area of fluid machinery engineering."

Mimal Urquidí-Macdonald, associate professor in the Department of Engineering Science and Mechanics, has been nominated by the U.S. State Department to advise on activity transport in water cooled reactors to the International Atomic Energy Agency in Vienna, Austria. Urquidí-Macdonald's areas of expertise include the modeling of corrosion problems that treat the integrity and life of nuclear reactors.

Also recently, she was elected to her second term as a technical adviser to the Department of Transportation, in Washington, D.C., on the issues related to corrosion of underground gas pipelines.

H. Louis Moore, professor of agricultural economics, was presented with PennAg Industries Association's first "Distinguished Service Award." PennAg Industries, a 118-year-old association representing feed, food, fertilizer, seed and other firms, provides service to the agricultural market in Pennsylvania and surrounding states.

Randall E. Newnham, assistant professor of political science at the Penn State Berks Campus, presented a paper titled "How to Win Friends and Influence People: A Comparison of German and Japanese Economic Linkage Policies," at the joint meeting of the International Studies Association and the Japanese Association of International Relations in Makuhari, Japan.

Frank Swetz, professor of mathematics and education, attended Historia Educacao Matematica, a conference on mathematics education held in Braga, Portugal. The meeting was also the venue of the Second European Summer University, a movement to bring together teachers from many countries to develop their knowledge of history and epistemology in mathematics education. Swetz gave two presentations: "Mathematica Pedagogy: A Historical Perspective" and "Problem Solving from the History of Mathematics."

Abdullah Yavas, assistant professor of business administration, presented two papers and was chair of a session during the recent European Economic Association Conference in Istanbul, Turkey. A faculty member of The Smeal College of Business Administration's Department of Insurance and Real Estate, Yavas delivered papers focusing on "A Comparison of Real Estate Marketing Systems: Theory and Evidence" and "Buyer Brokerage: Incentive and Efficiency Implications." The session he led was titled "Various Topics in Industrial Organization Theory."

Shizhuo Yin, assistant professor of electrical engineering, has been selected to receive the Army Research Office's Young Investigator Award. The award supports research by exceptional scientists who have held a doctorate for more than five years and provides the recipients with a three-year financial award to support research in fields critical to the Army that also will benefit civilian manufacturing industries. Yin will continue to conduct research on a novel multiple aperture system for surface roughness measurements.

Ugur Yucelt, associate professor of marketing at Penn State Harrisburg, was a visiting professor at the Middle East Technical University in Ankara, Turkey, under programs offered by the United Nations. He also presented a paper titled "Transfer of Technology to Newly Industrializing Nations" at the International Conference on Technology Management: University/Industry/Government Collaborations in Istanbul.

Legends can take on a life of their own

By GARY W. CRAMER
Public Information

The amazing persistence of contemporary legends like "The Devil-Worshippers at the Prom" and "The Vanishing Hitchhiker" is partly due to people sometimes acting out portions of the tales, a Penn State folklore researcher said.

Also adding to the staying power of some stories—and their ability to crop up across the world in different forms—is the trend for well-meaning, but over-reactive authority figures to insist the stories are true based on flimsy evidence.

"Halloween season is a fertile time for contemporary legends," Bill Ellis, associate professor of English and American studies at the Penn State Hazleton Campus, said. "When real-life actions are guided by a pre-existing legend, as has been in some cases, folklorists call it 'ostension.'"

"An example would be prankster teens creating a 'satanic altar' somewhere in a town being plagued by rumors that Satanists intend to disrupt prom night."

Another form of ostension occurs when honestly concerned people interpret vague or inconclusive happenings as supportive of some contemporary legend's actual existence, Ellis said. In this manner, puzzling graffiti, dead animals or strangers in town may seem to "prove" Satanists are active locally.



Bill Ellis relaxes on the Cursed Stone Couch of Weatherby, the most popular destination of Hazleton-area legend trippers. According to legend, an evil fate awaits all who sit on it under a full moon.

Ellis is widely published on rumor-panics so common that they have their own names, among them, "The Lights Out Gang Initiation," "The Mickey Mouse LSD" and "Welcome to the World of AIDS."

"Legends can help people relieve themselves of contemporary fears, but they may also serve as patterns for mischief makers to provoke the same fears," Ellis said. "Adolescents may feel they can get a rise out of adults by mimicking tampered Halloween candy, 'sacrificing' animals, or spray-painting inverted pentagrams and '666' in public places."

Such activity is not confined to the high-school age

group, however. College campuses are almost routinely hit by rumors of impending mass murder in dorm complexes, sometimes helped by pranksters faking evidence that some homicidal maniac is lurking about the area. At such times, contemporary legends like "The Roommate's Death" may also spread as an expression of coeds' fears.

According to Ellis, even the practice of people taking "legend trips" to sites with supposed supernatural connections — a haunted house or suicide bridge, for example — and concocting faux rituals there can convince gullible witnesses that shadowy underground cults are afoot.

"For the most part," Ellis said, "as disconcerting as these actions may seem, it's just a way of saying, 'See? The legend is true after all! What's more, it seems likely that different forms of ostension work in synergy.'"

"That is to say, the more naturally occurring incidents are explained in terms of Satanism, for example, the more certain people will be tempted to experiment with ostension. This includes either acting out narratives as hoaxes, or, more dangerously, taking Satanism seriously and becoming, however temporarily, part of the legend itself."

Research

Research
to use
funds
from
crime
bill

Jennifer Mastroski, assistant professor of administration of justice with the Institute for Continuing Justice Education and Research, has been awarded an 18-month grant by the Pennsylvania Commission on Crime and Delinquency to evaluate three model domestic violence pilot projects in Pennsylvania. The \$102,000 evaluation grant and model projects are being funded through the Violence Against Women Act, passed as part of the 1994 federal crime bill.

The pilot programs in Lancaster, Luzerne and Philadelphia counties will address areas such as: training law enforcement officers and prosecutors to more effectively identify and respond to violence against women; developing units specifically targeting violent crimes against women; developing more effective police and prosecution policies and protocols, specifically devoted to cases of violence against women; and strengthening victim services programs, including services to minority populations.

During the study, Mastroski will focus on three major research questions:

1. Has violence against women been reduced?
2. Have services to women victims been improved?
3. Have law enforcement and prosecutorial practices been changed, and if so, what are the results?

Highly saturated oils make the best lubricants because of their good stability, Duda said. However, highly saturated oils don't have the fluidity needed in cars, boats and machines.

Asadauskas, a native of Lithuania, is an intern at the U.S. Department of Agriculture (USDA) oil chemical research laboratory in Peoria, Ill.

Perez, who retired from the U.S. Department of Energy about two years ago, is a volunteer faculty member at Penn State. The Penn State Tribology Group, which studies the lubrication of moving surfaces, is the only chemistry-focused tribology group in the U.S.

Cooking and salad oils could keep your car or boat running smoothly

By BARBARA HALE
Public Information

They're not just for french fries anymore. Tests have shown that many vegetable-derived cooking and salad oils, such as corn, sunflower and canola, can be made to perform as well or better than the commercial standard for car, boat and machine lubricants.

Svajus Asadauskas, a doctoral candidate working under the direction of J. Larry Duda, chairman of the Department of Chemical Engineering, and Joseph Perez, adjunct professor of chemical engineering, reported that, when blended with a

proprietary additive developed at Penn State, some vegetable oil formulations perform as well or better than the commercial standard, 10W-30 SG, in the usual tests for the ability to resist burning and forming deposits at high temperatures. They also performed as well or better than the standards in tests for slipperiness and for evaporation loss.

While the tests examined important but relatively narrow characteristics, Duda notes that one of the group's commercial partners, Renewable Lubricants of Ohio, has also demonstrated vegetable oil's potential by using similar corn oil formulations successfully in company vehi-

cles for the last three years. The company's success challenges the widespread perception that vegetable oils oxidize too rapidly to be used in engines.

Duda said there has been continuing interest in vegetable oil-based lubricants for many years because they are more environmentally friendly. They can be produced and disposed of with less impact on the environment and are cheaper to manufacture than current synthetic lubricants.

Duda adds, "Vegetable oils offer Third World countries with a good farm base a real alternative to importing oil for lubricants."

MOC

Microcomputer
Order Center

Memory pricing

Due to the extreme fluctuation in the market price of RAM, the Microcomputer Order Center cannot guarantee that online price lists reflect the current price for these items. Please call the MOC at (814) 865-2100.

Imega will continue to offer a Zip drive \$50 mail-in refund until Jan. 31, 1997. The details of the rebate have changed slightly from the offer that ended Sept. 30, and new forms are required. The new rebate forms should be available from Imega by mid-November. If you have purchased a Zip drive since Oct. 1, contact Imega at (800) 828-9728 ext. 933 to request a new rebate form.

Special: Mention this article when you place a new order for a Zip drive (MOC item 381-3130 for SCSI port or item 441-4602 for parallel port) before Nov. 27, and receive a free Imega Zip drive T-shirt.

Attention Microsoft site license customers:

MOC received verification from Microsoft that anyone who purchased Microsoft NT Server, Microsoft NT Workstation or Microsoft NT Client through the MOC site license program on or after July 15, is legally entitled to run version 4.0.

To verify that you qualify, please check your License Agreement Certificate. If the issue date listed for Volume Pricing Level MOC-LB is on or after July 15, you are eligible to run version 4.0. This is true even if the version listed in the product description is 3.xx.

For the Record

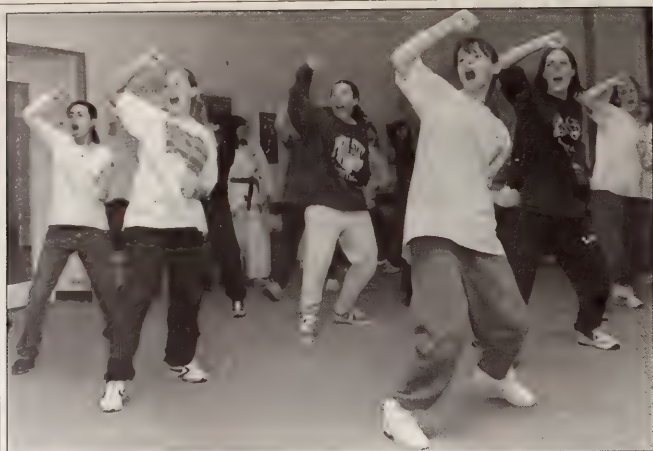
■ Due to a source error, the time of the Dec. 7 televised Lady Lion basketball game was incorrect. The game against George Washington will be televised at 7:30 p.m.

■ Due to a source error, J. Michael McVoy's name was misspelled in a photo caption on page 11 of the Oct. 17 Intercom.

Intercom online

You can see portions of this issue on the World Wide Web.

To access the current issue, go to the University Relations home page at <http://www.ur.psu.edu/> and click on the Intercom button.



Watch out

Members of a self-defense class practice blocking moves in the HUB Gallery Lounge on the University Park Campus. The Center for Women Students sponsors the introductory self-defense course, which teaches realistic, usable fighting skills to all women, regardless of physical condition or activity level. The course will be offered again next semester. For information, call the Center for Women Students at (814) 863-2027.

Photo: Kristie Guldner

Obituaries

Alice B. Keener, clerk typist in the College of Agricultural Sciences, from July 1, 1962, until her retirement Jan. 1, 1981; died Sept. 22. She was 79.

Jessie S. Bernard, professor of sociology in the College of the Liberal Arts, from Sept. 1, 1947, until his retirement Oct. 1, 1964; died Oct. 6. He was 93.

Arthur J. Copenhaver, environmental health worker, The Hershey Medical Center, from Dec. 26, 1994, until his death Oct. 14. He was 55.

William E. Dreibelius, farm machine

operator in the Department of Agronomy, from May 28, 1946, until his retirement June 1, 1967; died Sept. 23 at the age of 94.

Edna M. Guillet, office manager, Alumni Association, from March 4, 1945, until her retirement Jan. 1, 1969; died Oct. 13. She was 93.

John D. Lawther, associate dean and professor of physical education, from Sept. 1, 1936, until July 1, 1965; died Sept. 21 at the age of 97.

F.J. William Nystrom, an architectur-

al designer for the University, died Oct. 16 at the age of 78. Nystrom was a graduate of the Pittsburgh Aeronautical Institute and the John Doscher School of Photography. In the 1950s, he owned and operated a photography studio in Indiana, Pa. He was a decorated war veteran, earning two Bronze Stars for valor during World War II.

William N. Peck, program coordinator in the Applied Research Laboratory, from Dec. 10, 1979, until his death Oct. 9. He was 62.

PENNSTATE



INTERCOM

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Permit No. 1



Yikes!

Maevic Scanlon, portraying Anansi the Spider, backs away from a snake at the Paul Robeson Cultural Center on the University Park Campus during rehearsal for "The Story Keeper," a Jamaican play to be staged Nov. 23 by Metisages Theatre Production. The play is part of three-play production directed by JoAnn Leonard. For more information about the event, call (814) 867-8390.

Photo: Andrea Hurley

Brrrrrrrr... University gearing up for winter

By CHRISTY RAMBEAU
Public Information

WPSU-FM, Penn State's National Public Radio station, is the place to go when winter storms threaten and you're wondering if the University is open or closed.

"Beginning this month, WPSU will be the center for all information about weather-related class

cancellations and office closings," David Stormer, assistant vice president for safety and environmental services, said. "As soon as the president makes a decision to cancel, delay or close, that information will go to station Manager Dave Dzikowski, who will interrupt regularly scheduled programming about every 10 minutes with the latest report."

In fact, if the decision to delay

or close is made before WPSU begins its regular broadcasting at 6 a.m., Dzikowski and his staff will open the station and begin broadcasting immediately. The station also will give periodic reports when snow and ice cause school closings to reduce the confusion about whether or not the University expects you in class or at work.

See "Winter" on page 2

Retirement facility gets green light

By ALAN JANESCH
Public Information

A University-related retirement community project with the working title of "The Village at Penn State" got a reaffirmed "go-ahead" signal Nov. 1 from the Board of Trustees.

In a resolution recommended to the board by its Committee on Finance and Physical Plant, the board reaffirmed its Sept. 6 authorization for Penn State to enter into an agreement with a project team consisting of Cooperative Retirement Services of America Inc. (CRSA), of Memphis, Tenn., and Pinnacle Development Inc., of State College.

Under the agreement, the project team will conduct a marketing and financial feasibility study of a retirement village and continuous care facility intended to serve

See "Retirement" on page 6

Intercom to help readers find answers

Want to know what the name "Nittany" actually means? Or why there's a maximum cap on the number of vacation days you can accumulate? Or how about why employees have to pay for parking?

As part of an ongoing initiative to improve University communication, *Intercom* will be launching a new column within the next several weeks called "Glad You Asked" in which readers from any location may ask

these and other questions they've been pondering. Questions will be directed to and answered by sources in the areas that encom-

See "Glad You Asked" on page 2

■ It's your turn

Do you have a question that needs to be answered? Don't wait. Jot it down and send it to:
ask@psu.edu in care of "Glad You Asked."

Inside



USA Today founder to speak at University Park
John J. Curley, left, founding editor of *USA Today* and CEO of Gannett Co. Inc., will be on campus Nov. 22 as part of the Penn State National Issues Forum. See page 10 for details.



The bees have it bad

There's a crisis in the honey bee world—deadly mites. To find out what Penn State is doing to help, please turn to "Focus on Research," page 15.

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Glad You Asked

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pass those particular responsibilities.

The idea for the column, which emerged during discussions with President **Graham B. Spanier**, is actually an outgrowth of the president's long-range plan to more fully expand the lines of communication and promote an ongoing exchange of ideas. In his inaugural state of the University address, Spanier said he wanted to communicate "openly and often" with employees. The "Glad You Asked" column should provide employees with an opportunity to express their concerns about a wide range of issues.

"I see this as another avenue for faculty and staff to share their views and to have their questions directed to the proper source for a quick response," Spanier said. "I have found that many times people don't know who to turn to for an answer and this particular outlet should help streamline the process. It is usually the case that if one person has been wondering about something, others also have been thinking about the same issues. So it could be very helpful in terms of eliminating misunderstandings about University policies, programs or procedures."

Spanier also said that during this time of budgetary constraints and change, questions from readers could lead to solutions to problems and cost-saving ideas.

To submit a question, simply send it via e-mail to: ask@psu.edu in care of "Glad You Asked." Anyone submitting a question should provide their name and phone number so that *Intercom* can verify the source of the question. For publication purposes, *Intercom* will use the initials of the individual sending the question and their campus location or department, depending on the nature of the question. Requests for anonymity will be honored.

Obituaries

Stephen M. Raleigh, a professor emeritus of agronomy who retired in 1969, died Oct. 18. He was 92. Raleigh graduated from Kansas State University with a bachelor of science degree in agronomy, and from the University of Minnesota with a doctorate in philosophy in agronomy and plant genetics. He had been a coach for Penn State's grain judging team for more than 20 years.

Annette Wynia Rank, on the staff of counseling services, died Oct. 15 at her residence. She was 60. Rank was a 1958 graduate of Ursinus College with a bachelor of science degree in psychology, and received her master's degree in psychology from Penn State in 1961. She was a founder of the Women's Resource Center of Centre County and was the founding director of the Gestalt Therapy Professional Network of Philadelphia and served on its steering committee.

Stay tuned



The man at the mic

Dave Dzikowski, WPSU-FM station manager, is the man to trust for information on delays or closings this winter. WPSU, the center for all information about weather-related class cancellations and office closings, will interrupt regularly scheduled programming about every 10 minutes with the latest information.

Photo: Greg Grieco

Winter

continued from page 1

"WPSU-FM, which operates three transmitters—90.1, 91.5, and 106.7—was selected as the central point for weather news because we now reach listeners throughout central and northern Pennsylvania, easily covering the normal commuting radius to University Park," said **Mark Erstling**, general manager of Penn State Public Broadcasting, WPSX-TV and WPSU-FM. "We also will be able to report on closings for the Altoona and DuBois campuses should the need arise."

Serving a potential audience of approximately 350,000, the 90.1 signal is broadcast from Kane, and reaches all or portions of McKean, Cameron, Warren, Forest, Clarion, Jefferson and Elk counties. The 91.5 signal, based in State College, serves all or portions of Centre, Clinton, Lycoming and Clearfield counties, and the 106.7 signal is a translator station that serves the Altoona/Hollidaysburg area in Blair County.

WPSU is also carried on TCI cable channel 7, and other cable companies may carry it as well. In addition, the University will continue to cooperate with local and regional media to keep their reports on storm closures up-to-date.

But, if you are hoping to have several snow days off, don't count on it.

"Basically, the University never closes," Stormer said. "Even in last season's storms when classes and offices were delayed and the year before when classes were actually canceled, essential services and operations continued as usual. For example, animals were fed, research projects continued, students in residence halls got breakfast and the many systems that support our physical plant continued to operate. The Nittany Lion Inn is always open."

Sometimes area schools are closed to protect small children from hazardous conditions or because snow and ice make it impossible for school buses to complete

their routes in rural areas. But snow days are rarely enough of a problem to close or delay University classes and offices. If drifting snow creates problems, a short delay allows commuters to navigate the roadways in daylight.

"However, when trees and power lines are down, we lose traffic signals, street lighting, home heating and communication capabilities and may need to cancel some scheduled activities. The loss of electrical power is more significant than the snow. Our highway crews are very effective," he continued.

If a storm threatens, meteorologists **Fred Gadomski** and **Paul Knight** at the Penn State Weather Station consult national and regional information and advise senior administrators and others of the potential for trouble, especially during critical commuting hours. President **Graham B. Spanier** then makes the decision, and in his absence, Provost **John Brighton**.

But reasons for the decision are not always obvious to the rest of us. Some fast-moving fronts have come through during the middle of the day when it was safest for employees and students to wait out the storm rather than be dismissed early and be caught on the highways.

During delays or closings, employees in essential services and operations are expected to report for work in most circumstances, and should contact their supervisor with any questions about their status.

You might also look at "Handling 'Weather Day' Absences" on the Web at www.ohr.psu.edu/pages/policies.htm under Human Resource Guidelines, HRC-10. It spells out how time off and time worked are handled when there is an official closure.

You can also e-mail **Dzikowski** at wpsu@psu.edu with your suggestions, questions and best wishes for a mild and calm winter. And, remember, when you are looking out at three feet of snow at 3 a.m., Dzikowski and his crew have shoveled their way in to the station to give you the latest report that just might let you go back to bed.

Partings

History professor retires after 32 years of service to University

George Michael Enteen, professor of history, retired in June after 32 years of service in the Department of History.

Educated at Emory, Columbia and The George Washington universities, Enteen joined the faculty in 1964. He specialized in Russian history, especially the events of the Soviet period. His research concentrated on the work of Soviet historians, especially their relationship with political leaders, in particular the articulation and enforcement of intellectual controls by communist party authorities. He is responsible for the introduction of semiotic approaches to this subject matter. Both his own study of M.N. Pokrovskii, (The Soviet Scholar-Bureaucrat) and a collaborative work (Soviet Historians and the Study of Russian Imperialism) were published by Penn State Press.

Enteen has published numerous articles about Soviet historiography and politics, some of which were translated for discussion in the Institute of History of the Soviet Academy of Sciences, and some of which have appeared, since the collapse of the Soviet Union, in the leading Russian journal of historical studies.



George Michael Enteen

Enteen served on the advisory board of Soviet Studies in History and as historiography editor for the journal Russian History. Three times a Fulbright research fellow, he also received grants from the Swedish Academy and from the International Research and Exchange Board.

At Penn State he taught graduate and undergraduate courses in Russian, Soviet and

European history. Enteen introduced a widely taught course on the history of communism; he was instrumental in organizing the Slavic Language and Area Center, later the Center for Russian and East-European Studies. He initiated the Slavic Area Colloquium. He is continuing his research on Stalinist historiography.

Longtime staff assistant for HRRM ends service

Rhoda Williams, staff assistant in the School of Hotel, Restaurant and Recreation Management, has retired after more than 25 years of service.

During that time, Williams worked for five different program heads. She supervised three secretaries and processed budgets, faculty promotion and tenure materials, and course offerings.

In 1991 Williams was awarded the Carol Clark Ford Staff Achievement Award from the College of Health and Human Development for her many contributions to the efficient operation of the school. The nominating faculty wrote, "She embodies a sort of college ideal: good cheer, steady competence and self-assurance."



Rhoda Williams

Head of undergraduate kinesiology program ends 27-year career

George T. (Tom) Tait, associate professor of exercise and sport science, has retired after 27 years of service.

Tait began his career as a high school physical education teacher in Middletown, Md. He also taught at the University of Bridgeport, Bridgeport, Conn. Tait then moved to University Park to finish his Ph.D. in physical education. After graduation in 1969, Tait became a faculty member.

During his first four years, Tait served as an assistant track and field coach. At the end of his track coaching experience, he was approached by the fledgling men's volleyball club and asked to help build the program. Tait remembers telling the club that if they wanted a baby-sitter, they should look to help elsewhere. But if they wanted to work hard to improve, then he would certainly help them.



George "Tom" Tait

At the same time, a number of women approached Tait and asked for his assistance in starting a women's volleyball club. Tait received backing and increased funding for the program, and thus began coaching the women's club as well as the men's.

Both programs quickly moved from club to varsity status. From 1976-80, Tait coached both the women's and men's teams as they competed in the United States Volleyball Association. In 1980 he decided to focus on the men's squad, and continued to coach until early 1989.

At that time, he left his coaching duties to focus on teaching and conducting research. Until his retirement, he headed the undergraduate program in kinesiology.

Tait and his wife, Ann, now live in Brevard, N.C. He teaches at Brevard College and is developing a new four-year degree in exercise and sport science. He also is assisting in the development of a new women's volleyball program.

Although he misses the State College and Boalsburg areas, he says he is looking forward to less snow and the warmer temperatures offered by North Carolina winters.

25-year Awards



Peggy L. Fosnot



David M. Leaman



Romayne E. Weight



Fred B. Martin



Carl L. Green



Delores M. Wiant

Observing 25 years of service at the University are, from left, Peggy L. Fosnot, staff assistant VI, Department of Family and Community Medicine; Dr. David M. Leaman, professor of medicine in the Department of Medicine; Romayne E. Weight, administrative assistant, Radiology; and Fred B. Martin, anesthesia equipment specialist, all at The Hershey Medical Center; Carl L. Green, elevator technician in the Office of Physical Plant; and Delores M. Wiant, library assistant at Penn State Great Valley.

From the Trustees Docket

Board reaffirms nondiscrimination policies

By VICKI FONG
Public Information

The Board of Trustees reaffirmed its long-term commitment to its policies of nondiscrimination in education and employment, affirmative action and continual progress in building and sustaining a diverse University community.

"Penn State values access to higher education for all those qualified to seek its benefit," said Donald Cook, a trustee and chair of a special study group that reviewed the University's efforts to support diversity. "A national debate is under way on the role and place of diversity and affirmative action today. Therefore, over the past year, we have taken a look at Penn State's policies and practices in the area of diversity and affirmative action for under-represented minorities and women.

"The board has built a strong record of support for diversity over a quarter century, adding to it and broadening it along the way. Our policies and practices are legal, balanced and effective," Cook said. "Progress, obviously, has been made. More, obviously, needs to be done. Reaching higher levels of achievement will require persistence and continuing commitment on our part."

The trustees approved the resolution after hearing the report, which focused on six general areas: the legal requirements with respect to affirmative action programs for racial minorities; Penn State's policy and vision statements in the area of diversity; the programs and financial investment the University has in place to support diversity; its admissions policies and procedures; the University's financial aid policies and procedures in light of recent court decisions; and positions and practices at other institutions.

Cook outlined the history of Penn State's policies established by the board in 1971 when the trustees adopted an affirmative action policy statement. Twice more in the 1970s, the board created a special advisory trustee committee to look at such issues and expanded the University policy to include handicap, age, sex or status as a disabled

"Affirmative action operates on the principle that if enough women and minorities are considered, they will have an equal chance to be selected for the job. It does not mean preferential treatment, but simply fairness, opportunity and inclusion."

Trustee Donald Cook

Vietnam-era veteran. During the 1980s, the board endorsed a comprehensive document, which included a commitment to the recruitment, retention and graduation of a diverse student population, and later approved a resolution opposing racism and bigotry and reaffirmed its strong commitment not only to increase minority participation in all aspects of University life, but also to eliminate acts of intolerance toward individuals or groups.

In 1991, the board approved additional revisions to Penn State's nondiscrimination policy to include age, ancestry, color, disability or handicap, national origin, race, religious creed, sex, sexual orientation or veteran status.

The University's programmatic efforts to support diversity may be summarized in three general categories: student recruitment and retention; faculty and staff programs; and administrative support.

In admissions, the University does not consider race or ethnic origin as a factor in deciding who is offered admissions and who is not. All students, regardless of race, color or creed as admitted on the basis of their high school grades and their scores on the Scholastic Aptitude Test (SATs). Both factors determine a predicted grade point average, and students admitted to a Penn State degree program must have a predicted grade point average of 2.0 on a 4-point scale.

An exception occurs in the Educational Opportunity Program/Comprehensive Studies Program,

which serves all students including veterans and adults, and is only for Pennsylvania residents who are academically and financially disadvantaged, regardless of race.

"Many factors are taken into account to place students in programs, classes and the Penn State campus which best supports the students' needs and interests as well as those of the University," Cook said. "For example, in granting students their preference for the University Park campus, the needs of the Blue Band are considered. We need the appropriate number of students who can play the horns, percussion and so on. We also want to ensure that the student body is culturally and racially diverse."

As one illustration, the fall 1996 minority enrollment figures, excluding the Pennsylvania College of Technology, which was not included in Cook's report, are reported at a new record total with 7,184 students or slightly more than 9.5 percent of the total enrollment. Individual increases are reported in African American, Asian American, Hispanic and Native American enrollments.

In employment, full-time minority employees in all categories have doubled in number overall between 1983 and 1996, rising from 507 to 1,044. That includes an increase in full-time African American employees from 254 in 1983 to 455 in 1996.

"At Penn State affirmative means aggressive recruitment efforts to increase the number of minority and female applicants for positions," Cook said. "Affirmative action operates on the principle that if enough women and minorities are considered, they will have an equal chance to be selected for the job. It does not mean preferential treatment, but simply fairness, opportunity and inclusion. Contrary to popular rhetoric, affirmative action at Penn State includes setting representational goals. It has not and does not establish hiring quotas. Its purpose is to prevent discrimination."

In addition, the drive to build a diverse university community at Penn State has been institutionalized in the strategic planning program and is among the four strategic goals.

Hershey Medical Center to open Women's Health Center

The Hershey Medical Center will open a Women's Health Center next year, and with existing partnerships with other hospitals, plans to extend those services throughout central Pennsylvania.

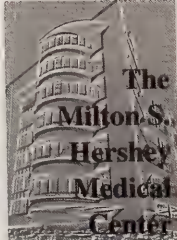
In an informational report to the board, Dr. Joanna Cain, chair of the Department of Obstetrics and Gynecology at Hershey, reported that according to research findings cited by the Office on Women's Health of the U.S. Public Health Services and others, modern medicine still has failed to adequately address women's health needs. These findings are a major impetus in the decision to create the Penn State Women's Health Center as part of a network of care sites around the central Pennsylvania region.

The Penn State Women's Health Center will be located in an innovative, newly constructed facility set to

open in September 1997. The building will house all the primary and preventive care services women need, including ambulatory care, a community health education resource library and a senior center.

Among the services to be provided at the center are family centered obstetrics; obstetrical genetic counseling and high-risk pregnancy care; breast care; nutrition and weight management; family planning; adolescent health and healthy life styles and stress management.

Cain reported that the vision of



the center is to "empower women of all ages and backgrounds to maintain and improve their health; treat medical problems specific to each individual; advance knowledge about women's health; provide a place to translate new information to benefit women and provide a place where the medical center's interdisciplinary strengths can flourish to better integrate women's health care."

As part of the Alliance4 Health, the medical center also collaborates across a regional health care network with three other hospitals and their hospital-provider organiza-

tions, allowing for an integrated delivery system. Additional work with the Area Health Education Consortium and the KEYNET project of Pennsylvania, both of which work with rural physicians, will extend the impact of the Women's Health Care Center to women in rural settings.

These partnerships, and others, will help preserve patient choice, increase access and enable the medical center to reach to women of all ages from all walks of life in a geographically diverse region, according to Cain.

Under Cain's direction, a multi-specialty team of professionals from the nursing, medical, social work, public health, community psychology and humanities disciplines at Penn State and throughout the Alliance4 Health will serve clients' needs.

From the Trustees Docket

Fourteen honored for roles in shooting incident

Fourteen members of the University community have been recognized for their acts of heroism and exemplary service during the September sniper attack on the HUB lawn on the University Park Campus.

Each of the honorees received certificates of merit during the Nov. 1 session of the Board of Trustees meeting. They were then guests of the board for a luncheon immediately following the meeting.

In addition to a board certificate, **Brendon Malovrh** also received the Barash Award for Human Service, which goes each year to a member of the Penn State community who has contributed most to the welfare of fellow humans. Malovrh, an undergraduate student in aerospace engineering and a University Scholar, is the student who disarmed the suspected assailant. The award includes a check for \$1,000, which comes from an endowment established by the friends and family of **Seymour L. "Sy" Barash**.

In the Sept. 17 shooting, one student was killed, **Melanie Spalla**, an undergraduate from Altoona, and one was wounded, **Nicholas Mensah**, an undergraduate from Philadelphia.

"There are hundreds of unsung heroes who—in the process of doing their jobs or simply being the people that they are—helped us work through a very difficult time," said President **Graham B. Spanier**. "But the people who are with us today experienced the tragedy in very direct and very personal ways. We want to thank them here, publicly, for acting bravely and unselfishly. We are very proud of them and admiring of the example they have set for all of us."

In addition to Malovrh, those being honored were:

- **Rebecca Beatty**, an instructor of nursing and coordinator of Continuing and Distance Education in the School of Nursing, who coordinated the triage after the shooting.

- **Jason Breitweiser**, an undergraduate student in the Division of Undergraduate Studies, who helped treat and checked the vital signs of Mensah and then tried to help Spalla.



Congratulations

Brendon Malovrh, second from left, was one of 14 honored for their roles in the September shooting on the University Park Campus. Malovrh was congratulated by Edward P. Junker III, vice chairman of the Board of Trustees, left, Jesse Arnette, chairman of the board, and President Graham B. Spanier as he received the Barash Award for Human Service. The undergraduate aerospace engineering student, a University Scholar, disarmed the suspect.

Photo: Greg Grieco

- **Daniel Browne**, an undergraduate student in finance and international business, who gave aid to Mensah and then called 911 from a nearby building.

- **Elizabeth Corwin**, assistant professor of nursing and coordinator of the Family Nurse Practitioner Program at the University, who assisted the victims.

- **Sharon Falkenstein**, instructor of nursing in the School of Nursing, who was on the south walkway by the HUB, saw Mensah fall to the ground and ran to his assistance.

- **Holly Garlitz**, an undergraduate student in elementary and

kindergarten education, who pulled Mensah to safety behind a tree while shots were still being fired.

- **Cory Kline**, an undergraduate student in human development and family studies and ROTC cadet, who helped care for Mensah immediately after the shooting.

- **Janette Moore**, a staff assistant in the School of Nursing, who aided the victims.

- **Janice Penrod**, a graduate student and graduate assistant in the School of Nursing, who assisted the victims. She is out of the country now and will receive her certificate when she returns.

- **Celena Ruth**, an undergraduate student in wildlife and fishery science, who was the first to alert police. She then ran to the lawn to assist the victims.

- **Marilyn Stevens**, an instructor of nursing in the School of Nursing, who assisted the victims;

- **Sally Wangness**, an assistant professor of nursing and associate director of the Commonwealth Educational System for the School of Nursing, who coordinated aid to the victims.

- **Kerry Whitelock**, a graduate student in nutrition, who administered first aid to Mensah.

Board of Trustees receives report on 1995-96 audited financial statements

A report Nov. 1 on the University's 1995-96 audited financial statements shows that total assets of June 30, were \$2.87 billion, after depreciation, according to **Kenneth S. Babe**, corporate controller.

The report also showed:

- Revenue received by the University in 1995-96 was \$1.79 billion;

- Expenditures for instruction were \$449 million in 1995-96;

In addition to the University's internal audit

reports, an independent audit is performed each year by Deloitte and Touche. Babe also reported that no formal findings were made relating to the University in the state auditor general's report on the state appropriation for the year ending June 30, 1995.

From the Trustees Docket

Leases will help build regional nature center

By ALAN JANESCH
Public Information

The Board of Trustees approved two \$11-a-year property leases that will allow the creation of a regional nature center in a wetlands area known as the Millbrook Marsh and expanded historical exhibits at the Centre Furnace Mansion near the University Park Campus.

For the nature center, Penn State will lease a 63.2-acre property near the interchange of the Mount Nittany Expressway (Route 322) and East College Avenue, east of Puddington Road, to the Centre Region Recreation Authority (CRRRA). For the expanded historical exhibits, Penn State will lease a 4.8-acre parcel at Porter Road and East College Avenue to the Centre County Historical Society, which operates the Centre Furnace Mansion.

Both leases could run as long as 50 years — the terms of the agreements are for 35 years, with three successive five-year renewal options.

"The agreements make it possible to give the Penn State community and surrounding communities an easily accessible nature education center whose story will focus on water, the Millbrook Marsh and the Spring



Historic link

A regional nature center will be created at the Centre Furnace Mansion near the University Park Campus.

Photo: Greg Grieco

Creek watershed, and also expand and enhance a well-known historical site closely associated with the birth of Penn State," said Robert Finley, assistant to the senior associate vice president for finance and business.

"The nature center and the mansion will be two key points of interest along a corridor park system that will follow our area's waterways, possibly

becoming linked with a network of biking and hiking paths."

CRRRA and the Centre Region Council of Governments, along with representatives of the ClearWater Conservancy and the State College Area School District, have been working closely with Penn State's Shaver's Creek Environmental Center to develop complementary programs and explore staffing possibilities and exhibit ideas. Planned activities include operating CRRRA parks programs at the nature center, setting up permanent displays that highlight the relationship between the Spring Creek watershed and the Chesapeake Bay, and building boardwalks that give people a closer but unobtrusive look at the conditions in Slab Cabin Run and Thompson Run. Biking and hiking paths would link the site to other parts of the proposed corridor park.

The area is the site of the first charcoal-furnace iron-making in Centre County. The historical society hopes to build a new facility to house its historic collections and an educational center, leaving the mansion free to function solely as a historic house. The mansion now houses some historical and educational exhibits, but a new facility would make larger exhibits possible.

The mansion and the furnace itself represent a historic link to the beginnings of Penn State. In 1855, when the state agricultural society was looking for a site for an agricultural school, the owners of the Centre Furnace iron-making operation offered land and other support for the agricultural school that eventually became Penn State.

The 63.2-acre parcel that will be leased to CRRRA is composed of a 12.4-acre parcel known as "Farm 12," which includes a residence, a main barn, a horse barn and several outbuildings, and a 50.8-acre parcel previously owned by but recently given to the University by Clover Highlands Associates, State College. The larger parcel makes up most of Millbrook Marsh.

The buildings on the smaller parcel are aging and the property is not contiguous to any other Penn State property.

The 4.8-acre parcel that will be leased to the historical society consists of a one-acre parcel now used by the society for parking under a license agreement and an additional 3.8-acre parcel west of Porter Road that includes the Centre Furnace Stack. Anticipated improvements include enhancements to the historical display of the stack and other improvements to the entranceway.

Retirement

continued from page 1

not only the needs of its residents but also the educational and research needs of Penn State students and faculty.

A properly designed and operated retirement community at Penn State can provide valuable services to its residents, enhance the already close relationship between Penn State and its alumni, and promote increased educational opportunities for Penn State students and faculty, said President Graham B. Spanier.

In general, retirement communities of the kind envisioned by Penn State provide several levels of services for retirees: independent living, for those who can care for themselves; assisted care, for retirees who need some help with personal needs, but are largely self-sufficient; and skilled care, which usually provides high-level care in a nursing-home environment.

During the meeting, the board heard presentations from Martin Satava, executive vice president of development at CRSA, and Robert Poole of Pinnacle Development, who is also president and CEO of S&A Custom Built Homes, State College. They told the board that CRSA/Pinnacle has extensive experience in developing and operating retirement communities and planned unit communities.

William H. McKinnon, senior associate vice president for finance and business at the University, said the review team believes that the CRSA/Pinnacle group "brings extensive experience to the project, has a thorough knowledge of the local market, and is well qualified to develop and operate 'The Village at Penn State.'"

The next steps for the Penn State review team are

Potential Benefits of the "Village at Penn State"

- Increased educational opportunities for students and faculty.
- A volunteer retiree service corps could bring expertise to the University and the community.
- The Hershey Medical Center would be involved in providing medical care to residents of the retirement community.
- No University funds would be used to develop the project, and Penn State would not own or operate the facility. But the facility would generate some revenue for Penn State.
- The retirement village would have access to

University programs, services and facilities. For instance, the community could:

- use the services of and provide research opportunities for the College of Health and Human Development; and
- provide internships and work opportunities to Penn State students.
- Closer relationships would develop between the University and alumni residing at the retirement community, including increased opportunities for philanthropic support of Penn State and its programs.

to work out an agreement with CRSA/Pinnacle that will:

- specify a site for the Village;
- outline University participation on the boards that would run it;
- provide for joint review of project development plans and approvals at key points in the development process;
- allow the use of the University name; and
- define how the Penn State Alumni Association will provide marketing assistance for the project.

As it is currently envisioned, the Village at Penn State would consist of two distinct kinds of facilities: a planned unit development (PUD) for younger retirees and a continuing care retirement community (CCRC) for those who want to ensure the availability of long-term care.

Penn State would not use any University funds to develop the project, and would not own or operate the facility. But both parts of the retirement village would have access to University programs, ser-

vices and facilities that would benefit the Village and its residents as well as the University and its students. As a whole, the Village would involve:

- The Hershey Medical Center, in providing medical care;
- the College of Health and Human Development, in doing research and providing services; and
- the Alumni Association, in promoting and marketing the Village, especially to Penn State alumni, faculty and staff.

In addition, a retirement community associated with Penn State would be able to provide internships and work opportunities to Penn State students in health planning and administration, recreation and leisure activities, hotel and restaurant management, human development and family studies, nursing, nutrition, kinesiology, gerontology and other related disciplines. It could also be tied into Penn State classes, athletics and cultural events.

In recent stories in several national, regional and area newspapers, the State College area was described as a community highly attractive to retirees.

United Way goal is \$450,000 for University Park

With enthusiasm and a dedicated commitment to succeed, leaders of the 1996 United Way Campaign have announced a fund-raising goal of \$450,000 for the University Park Campus. The goal represents about one-third of the county-wide goal of \$1.35 million.

The new goal was announced at a kickoff reception hosted by the Nittany Lion Inn and attended by United Way team leaders and members and United Way staff members and agency executives.

"The United Way Campaign at

University Park has made tremendous strides in the last several years," Tim Curley, director of athletics and 1996 campaign chair, told the group. "Because of the great things accomplished last year, we are ready to move to another level.

"Achieving our goal will take a lot of planning and effort and a lot of people and time. Because of your involvement, we are positioned to kick off the campaign at a high level."

Penn State President Graham B. Spanier urged the team leaders and members "to take the extra mile by encouraging your fellow employees to

give and also to set their sights as high as they can in terms of giving."

Calling the United Way "an immensely important activity for all of us," he said supporting the United Way will improve the quality of life for all of Centre County.

"We all have a stake in making this a better place to live. The more we improve the quality of life here, the better it will be for Penn State.

"The University has a very special responsibility because it is the major employer in the region. We have the ability to make the campaign work or contribute to its failure. I'm very enthusiastic about what is possible in

terms of reaching and even exceeding our goal."

Norma Keller, of the Centre County Youth Service Bureau, described some of the services provided by the bureau, just one of 30 United Way agencies in Centre County.

"I have seen the dramatic impact the United Way has had on children in Centre County," she said. "However, member agencies are being asked to provide more and more services while facing drastic cutbacks in federal and state funding. More than ever, this is the year we need the United Way."

Penn Staters

Dinesh Agrawal, associate professor of materials science and senior research associate in the College Materials Research Laboratory, gave an invited talk on "NZP: A New Family of Low-Temperature Expansion Ceramics, Rad-Waste Forms and Supercritical Conductors" at the Institute of Research and Innovation, Tokyo and at Hitachi Ltd., Ibaraki, Japan.

Linda Burton, professor of human development and sociology in the College of Health and Human Development, presented a plenary lecture called "Integrating the Study of Context and Multigenerational Family Processes: Clinical Implications" at the American Family Therapy Academy's 1996 annual meeting.

She also received the America Family Therapy Academy's 1996 Award for Innovative Contributions to Family Research. The award recognized Burton's work in studying three generations of African American families in urban settings, with a special focus on teen-age mothers, their mothers and their grandmothers.

James Finley, assistant professor of forest resources, has been named to the board of advisers for the International Symposium on Society and Resource Management.

Robert Killoren, director of the Office of Sponsored Programs, was awarded the 1996 Excellence Award by the Society of Research Administrators. The award is made each year to an individual who represents the best attributes of research administration and has contributed greatly to the society. The award recognizes Killoren's work in electronic research administration, his knowledge and performance of research administration, his development of new research administration tools and his mature philosophy of research administration.

Ruth Leventhal, professor at The Milton S. Eisenhower Medical Center and former provost and dean of Penn State Harrisburg, was recently presented with a "lifetime achievement" award by the Family and Children Services Board of Directors. The award recognizes Leventhal's work over the past 10 years on the CR2000 Plan for Education, which she chairs. The program is one of the many facets of the Council for Public Education, a business/education partnership to improve education in the Capital Area.

Gary L. Messing, director of the Particulate Materials Center and professor of ceramic science and engineering, presented an invited paper on "Pow-

der Synthesis and Production in the 21st Century" at the Keramische Prozeßtechnik in Berlin, Germany. He also presented at the Korea-Japan-U.S. workshop on "Microstructure Development in Materials" in Taejeon, Korea. His talk was on "Seeding for the Templating of Unique Ceramic Microstructures." In addition, Messing chaired a session in Taejeon on abnormal grain growth and simulation of microstructural evolution.

Gerald Moser, professor emeritus of Portuguese, gave an invited paper at the 26th annual meeting of the Canadian Association of African Studies at McGill University in Montreal. The title of his talk was "Birth of Literature: A Comparison Between the Luso-African Literatures and Medieval Western European Literatures." Moser also gave an invited presentation on "The Theme of Childhood in the Works of Classic Luso-African Authors" at the International Federation for Modern Languages and Literatures in Regensburg, Germany.

Robert E. Newham, associate director of the Intercollege Materials Research Laboratory and Alcoa professor of solid state science, was an invited speaker at the International Symposium on Applications of Ferroelectric Thin Films in Shizuoka, Japan. His talk was on "Size Effects in Ferroic Oxides."

Jonathan Phillips, professor of chemical engineering, was the keynote lecturer on the subject of the use of calorimetry to study catalysts at the 11th International Conference on Thermal Analysis and Calorimetry. Earlier this summer, Phillips was an invited lecturer and panel member at a special NSF-sponsored conference on Calorimetry in Catalysis held in Mayaguez, Puerto Rico.

William R. Schmalstieg, Edwin Erle Sparks professor of Slavic languages, gave an invited lecture on the Old Prussian language at a conference titled "Colloquium Pruthenicum Secundum" in Cracow, Poland.

University Archivist Lee Stout has been named a Fellow of the Society of American Archivists, the highest individual honor bestowed by the society. Established in 1957 and conferred annually, this distinction is awarded to a limited number of individuals for their outstanding contribution to the archival profession.

The Society of American Archivists, founded in 1936, is North America's oldest and largest professional archival association.

Faculty/Staff Alerts

Tax reinstated

A new federal law reinstated the tax exemption of the undergraduate tuition discount benefit received by Penn State employees and their families. But for all University employees and their spouses using the benefit for graduate-level courses, this benefit became taxable effective July 1, according to the law which was passed in August.

Effective with the fall 1996 semester, the benefit for graduate-level tuition discount will be reported as income on the employee's W-2 form and will be subject to withholding tax. It is estimated to affect approximately 600 people.

In order to reduce the impact of this withholding as much as possible, the amount of the benefit will be reported in thirds. This amount will then be added into either the October, November and December monthly payrolls, or the Oct. 25, Nov. 8 and Nov. 22 biweekly payrolls.

However, the tax exemption pertaining to the undergraduate benefit expires June 30, 1997, according to the new law, and will be subject to review at that time.

Thanksgiving holiday

Because of the Thanksgiving holiday, the *Intercom* deadline for the Dec. 5 issue will be noon Tuesday, Nov. 26, instead of Wednesday. Copy to be included in *Intercom* can be e-mailed to lm8@psu.edu or axm219@psu.edu.

Courses offered

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. For a course description, please consult the HRDC course catalog or log-in to the Web site at <http://www.ohr.psu.edu/> and click on the button for HRDC. Registration for fee-based courses requires a completed registration form on page 67 of the HRDC course catalog.

Coaching for Exceptional Performance

Meets from 8:15-11:45 Friday, Nov. 22, in 319 Rider Building. Cost: \$35.

Redefining Your Roles in an Electronic Office

This new workshop will help you to understand the vocabulary of information technology and gain a better understanding of how information technology is changing the workplace. Meets from 1:15-4:30 p.m. Monday, Dec. 2, in 319 Rider Building. Cost: \$35.

Avoiding Burnout: Balancing Your Life at Home and Your Career

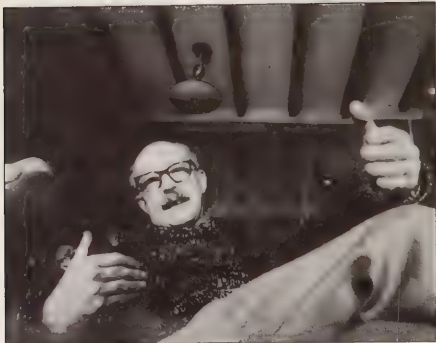
Meets from 8:30-11:30 Tuesday, Dec. 3, in 118 Agricultural Science and Industries Building. Cost: \$35.

Continuous Achievement: How to Increase Effectiveness at Work

Meets for two sessions 8:30-11:45 a.m. Tuesday and Thursday, Dec. 3 and 5, in 319 Rider Building. Cost: \$55.

The ARTS

AT PENN STATE



Photography exhibit

Ed Leos, a longtime photographer and retired professor of journalism, will have his photographs on display in the Hetzel Union Building Formal Gallery on the University Park Campus through Dec. 7.

Photo: Greg Grieco

"Opera Intermezzo"

The Pennsylvania State University Opera Theatre will present three performances of *Opera Intermezzo*, a program of staged scenes from some of the great operas. Performance times are 8 p.m. Friday and Saturday, Nov. 8 and 9, and a Sunday matinee at 4 p.m. Nov. 10. The performances will be held in the School of Music Recital Hall on the University Park Campus.

The performers in *Opera Intermezzo* are students who are studying voice in the School of Music. Susan Boardman, associate professor of music, is the director of the Penn State Opera Theatre. Admission is \$4 at the door.

Dance performance

The Lewitzky Dance Company, on its last tour, will perform at 8 p.m. Saturday, Nov. 9, in Eisenhower Auditorium on the University Park Campus. The event is sponsored by the Center for the Performing Arts.

Bella Lewitzky is the company's choreographer and master teacher. Her company is the only one of the top six modern dance companies based outside of New York.

Tickets are \$22.50 for non-students and \$18.50 for students. For tickets or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Children's concerts

Cathy Fink and Marcy Marxer will perform two concerts for children at 2 and 4 p.m. Sunday, Nov. 10, in Eisenhower Auditorium on the University Park Campus. The performances are sponsored by the Center for the Performing Arts.

Singing and yodeling in fine harmony, the two will perform songs from their award-winning children's albums "Air Guitar," "Help Yourself!" and "When The Rain Comes Down." They accompany themselves on hammered dulcimer, steel drums, five-string banjo, electric and acoustic guitar, spoons and a variety of other instruments.

Tickets are \$7 for general admission and students, and \$4.50 for children 12 and younger.

For tickets or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Oriana Singers to give autumn concert

The Oriana Singers, under the direction of Lynn Dralfal, assistant professor of music education, will present their autumn concert "Cantate" at 7 p.m. Sunday, Nov. 10, in the School of Music Recital Hall on the University Park Campus. The 70-voice treble

choir will be accompanied by pianist Sarah Spraitzer and organist Shannon Love. "Discantus," a small, self-conducted ensemble of members of the Oriana Singers also will perform. Tickets are \$4 and \$2 available at the door.

Violin and piano recital

Violinist Rolando Freitag and pianist Kathy Cinal will present a free recital at 8 p.m. Monday, Nov. 11, in the School of Music Recital Hall on the University Park Campus.

Performance art in Zoller Gallery

"Ardent Agendas: An Evening of Performance Art" by the Penn State Performance Art Collective and Neptune" will occur at 7 p.m. Tuesday, Nov. 12, in the Zoller Gallery in the Visual Arts Building on the University Park Campus.

The Penn State Performance Art Collective consists of current and former students of Art 497C, a performance art class taught by Charles Gariani, associate professor of art education. The members perform autobiographical works dealing with contemporary cultural issues affecting art and the body such as race, gender, ethnicity and sexual orientation.

The rock band Neptune will also perform, presenting a mix of music, performance and art. The band's instruments are constructed from industrial salvage. Using alternative tunings and the peculiar sounds of their instruments, the band will perform a set of original post-industrial rock to cap off the evening.

The Zoller event is free to the public and serves as a kick-off event to the Performance Art, Culture, Pedagogy Symposium to be held Nov. 13-16.

Poet to appear at Behrend

Renowned American poet Suzanne Gardinier will read her poetry at Penn State Erie, The Behrend College, at 7 p.m. Tuesday, Nov. 12. Her presentation, which is open to the public, will take place in the Reed Union Building Lecture Hall.

Gardinier is the author of *The New World*, a book-length poem, and *A World That Will Hold All People: Essays on Poetry and Politics*.

Flute ensemble concert

The 13-member Penn State Flute Ensemble, directed by Eleanor Duncan, associate professor of flute, will present a free program of chamber music for flutes at 8 p.m. Wednesday, Nov. 13, in the School of Music Recital Hall on the University Park Campus.

Employing a wide range of instruments in the flute family, the flute ensemble will perform works drawn from a baroque, classical and contemporary repertoire.

Jeanne Provance, a graduate teaching assistant in flute, will conduct selections for the full flute choir. Greg Woodbridge, graduate teaching assistant in conducting, will also direct.

Bach's Lunch

The Singing Lions, a traveling show choir directed by Peter Kiefer, will perform a Bach's Lunch concert at 12:10 p.m. Thursday, Nov. 14, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute free concert is part of the Bach's Lunch series sponsored by the School of Music and the University Lutheran Parish.

The Singing Lions consists of 10 singers, an instrumental trio and a six-member technical crew. The group will present a program of Broadway and jazz music, along with a bit of nostalgia. The "West Side Story" medley will be the highlight.

Audience members may take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Stories to be performed

On Saturday, Nov. 15, and Sunday, Nov. 16, student performers will honor three stories which won the 1996 Kate Lehman Award in readers theatre performances. Performances begin at 8 p.m. in Kern Auditorium on the University Park Campus. Admission is free.

The three stories will be "Painting Tilt Down" by Brendan McGuire, "Rainy Day Women" by Patrick North and "Swans" by Tess Thompson. Each won the Kate Lehman Award for student fiction in open competition last spring. The pieces will be directed by students Crissa Lynn, Ray Kelly and Brian Mehalich, respectively.

Doll exhibit

The original dolls of Janet Robinson are featured in an exhibit at Kern Building on the University Park Campus through Nov. 17.

The exhibit of paper twist dolls includes angels, Victorian dolls, Amish dolls and dolls of diverse ethnic backgrounds.

Kern Exhibition Area is on the first floor in Kern Graduate Building.

Photo exhibit

The Hetzel Union Building Formal Gallery on the University Park Campus features the photography of Ed Leos through Dec. 7.

The exhibit, a retrospective, features Leos's early work from the 1940s to the present day.

A reception, sponsored by a grant from the Historical Collections and Labor Archives, will be held from 4 to 6 p.m. Tuesday, Nov. 12, in the Formal Art Gallery.

Leos, retired Penn State professor of journalism, began his photography career in New York City in fashion and commercial work. A photographer, teacher and researcher, he was named "The Teacher/Photographer of the Year" in 1976 by the PJ Division of the Association for Education in Journalism.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, November 8

- Gallery Talk, 3 p.m., Palmer Museum of Art, Christoffers Lobby. Catherine Ciferri on "Ancient to Renaissance Art of the Palmer Museum."

- School of Music, 8 p.m., Recital Hall. "Opera Intermezzo," Susan Boardman, director, through Nov. 9. For tickets, call (814) 865-0431.

- Graduate Student Association, 8:30 and 8:30 p.m., 112 Kern. Film, "Gold Comfort Farm," through Nov. 9.

- Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "Unforgettable Summer," through Nov. 9.

- The Bryce Jordan Center, 7:30 p.m. "Smashing Pumpkins." For tickets, call (814) 865-5555.

Saturday, November 9

- Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Lewitzky Dance Company." For tickets, call (814) 863-0255.

- The Bryce Jordan Center, 8 p.m., "Wynonna." For tickets, call (814) 865-5555.

Sunday, November 10

- School of Music, 2 p.m., Recital Hall. "Penn State Oriana Singers." Lynn Ellen Drafla, conductor. For tickets, call (814) 865-0431.

- Center for the Performing Arts, 2 and 4 p.m., Eisenhower Auditorium. "Cathy and Marcy." For tickets, call (814) 863-0255.

- School of Music, 4 p.m., Recital Hall. "Opera Intermezzo," Susan Boardman, director. For tickets, call (814) 865-0431.

- School of Music, 8 p.m., Recital Hall. "The Penn State Flute Ensemble." Eleanor Duncan Armstrong, director.

Tuesday, November 12

- Spanish Club, 7 p.m., Lipson Auditorium. Film, "The Family."

- School of Visual Arts and Performance Art, 7 p.m., Zoller Gallery. "Penn State Performance Collective."

Wednesday, November 13

- School of Music, 3 p.m., Recital Hall. "Penn State Mallet Ensemble Concert." Dan C. Armstrong, conductor.

Thursday, November 14

- School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch Concert features "The Singing Lions."

- Palmer Museum of Art, 2 p.m. Gallery Talk, Mary F. Linda on "The Gods Must Be Hungry."

Friday, November 15

- Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk, Sarah Andrews on "Portraiture in American Art."

- Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "Nellie et Monsieur Armand," through Nov. 16.

- The Bryce Jordan Center, 7:30 p.m. "World Gold Gymnastics Tour." For tickets, call (814) 865-5555.

Saturday, November 16

- School of Music, 8 p.m., Recital Hall. Piano recital by Steve Grazzini.

- Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Czech Philharmonic Orchestra." For tickets, call (814) 863-0255.

Sunday, November 17

- School of Music, 3 p.m., Eisenhower Auditorium. "Combined School of Music Choirs and Philharmonic Orchestra." For tickets, call (814) 863-0255.

- Max Kade German-American Research Institute, 3:30-5:30 p.m. at 304 Burrows Building. Open House with Saur Bible and Mary's Mirror on display, continuous showing of videos on history and heritage of German immigration; 4-4:30 slide presentation by Director of Institute on JFK's book "A Nation of Immigrants: The Germans." Refreshments.

SEMINARS

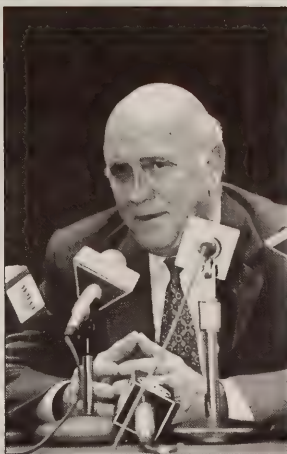
Friday, November 8

- Accounting, 3:30 to 5 p.m., 333 Beam. Jagan Krishnan on "Litigation Risk and Auditor Resignations."

- Economics, 3:30 p.m. 420 Kern. Most Raff on "Optimal Export Policy in the Presence of Informational Barriers to Entry and Imperfect Competition."

- Geography, 4 p.m., 206 Walker. Dennis Thomson on "Selling (7) Science to Skeptics."

- Spanish Club, 7 p.m., Palmer Museum of Art, Lipson Auditorium. Javier Escudero presents a slide show on Peru.



One in a series

F.W. deKlerk, former president of South Africa, spoke on the University Park Campus on Oct. 29. His visit was part of the Distinguished Speakers Series. The next speaker in the series will be Academy Award-and Golden Globe-winning actress Olympia Dukakis, who will discuss women's issues at 8 p.m. Nov. 18 in Schwab Auditorium on the University Park Campus. For details, please see the story on page 11.

Photo: Greg Grieco

Monday, November 11

- Comparative Literature, 12:15 p.m., 101 Kern. Chiyo Kawaami on "Tokyo: Hybrid Narrative Space in the Works of Izumi Kyoka (1873-1939)."

- Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Paul Heilmann and Jeff Renner on "Computer Resources, Challenges and Opportunities."

- Australia-New Zealand Studies Center, 1:30 p.m., 112 Weaver. John McCarthy on "Moving from Washington to Jakarta-From Warm Spot to Hot Spot?"

- Gravity Center, 2 p.m., 339 Davey Lab. Juan Maldacena on a subject to be announced.

- Physics, 3:30 p.m., 339 Davey Lab. Colin Broholm on "Field Induced Incommensurate Spin Correlation in a One-dimensional S=1/2 Antiferromagnet."

- Residence Life, 7 p.m., Schwab Auditorium. Jacob Holt on "American Pictures."

- Physics, 8 p.m., 112 Kern. William Phillips on "Time, Einstein and the Coldest Stuff in the Universe."

Tuesday, November 12

- Physics, 3:30 p.m., 117 Osmond Lab. William Phillips on "Optical Lattices: Atomic Physics Meets Solid State."

- Geosciences, 4 p.m., 112 Walker. Andrew Nyblunde on "The African Superswell."

- Nutrition, 4 p.m., 110 Wartik Lab. James Rosenberger on "Meta-Analysis: Combining Statistical Evidence from Multiple Studies."

- Biology, 4 p.m., 8 Mueller Lab. Vivian Budnik on "Genetic Analysis of Synaptic Development and Ion Channel Clustering in Drosophila: Role of Discs-Large."

- Palmer Museum, 6 p.m., Lipson Auditorium. Mary Louise Krumme on "Cézanne's Cardplayers: A Game of Life."

Wednesday, November 13

- Gerontology Center, 12-1 p.m., 101 Health and Human Development East. Kathleen Woodward on a subject to be announced.

- Center for Linguistics, 12:15-1:15 p.m., 205 Burrows. Lara Lomicka on "Conversation as Cooperation in the Foreign Language Classroom."

- Physics, 2:30 p.m., 201 Thomas Building. William Phillips on "Do We Understand Laser Cooling?"

- Engineering Mechanics, 3:35 p.m., 214 Hammond. Brad Lerch on "SiC/Ti Composites."

- Department of English, the Institute for the Arts and Humanities Studies, the Research and Graduate Studies Office of the College of the Liberal Arts and the Mary Rollins Fund, 7:30 p.m., 112 Walker. David Quammen will read from his work, Song of the Dodo.

Thursday, November 14

- Ceramics, 11 a.m., 301 Steidle. Paul Ducheyne on "The Mechanisms of Bone Bonding of Bioactive Ceramics."

- Ecology, 3:45, 106 Bocke. Steve Beckerman on "Patience and its consequences in a South American Indian tribe."

- Computer Science and Engineering, 4 p.m., 302 Pond Lab. Pavel Pevzner on "Spliced Alignment: A New Approach to Gene Recognition."

- Econometrics, 4 p.m., 420 Kern. Jinyong Han, "On the Role of Propensity Score in the Efficient Semiparametric Estimation of the Average Treatment Effects."

- Archaeological Institute of America, 8 p.m., 101 Kern. E. Marianne Stern on "Hellenistic Luxury Glass."

- Landscape Architecture, 8 p.m., 101 Thomas Building. Donald Worster will speak on a subject to be announced.

Friday, November 15

- Undergraduate Studies, 12-1 p.m., 305 Hetzel Union Building. Robert Pangborn on "Advising for 'The Penn State Education: A New View of General Education.'"

- Geography, 4 p.m., 206 Walker. David Rain on "The Eaters of the Dry Season: A Geographical Portrait."

- Philosophy, 4 p.m., 124 Sparks. Rebecca Comay, author; Karen Ir, Peter Grot and Maria Taler, panelists and Greg Recco, moderator discuss the work of Walter Benjamin.

CONFERENCES

Friday, November 8

- "New Voices in Relativity and Quantum Gravity," through Nov. 10. Conference will be held at the Days Inn on Nov. 8 and 9 and at 101 Osmond on Nov. 10.

Saturday, November 9

- Gender Equity Conference, The Penn State Scanticon. Keynote address, "Empowering Ourselves and Others," Sabrina Chapman.

Tuesday, November 12

- Penn State Golf Turf Conference, The Nittany Lion Inn, through Nov. 14. To register, call (814) 863-1017 or (814) 863-3475.

- Teen Pregnancy Prevention Conference, The Penn State Scanticon, through Nov. 13. Keynote address by Laurie Zabin.

EXHIBITS

The HUB Art Alley

- Drawings by Christine Meyer, through Nov. 17.

- Ceramics and stained glass by Shahnaz Lofli, through Nov. 17.

The HUB Formal Gallery

- Photography by Ed Leos, through Dec. 7.

Kern Exhibition Area

- Doll exhibit by Janet Robinson, through Nov. 17.

- Coin art and jewelry by Claire Allison Ruliser, through Nov. 17.

- Photography by Mindy Hans, through Nov. 17.

Palmer Museum

- "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

- "When Cal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

- "Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

- "The Wood Engravings of Warren Mack," through Jan. 5.

- Reflects an international perspective.

LECTURES

USA Today founder to give luncheon lecture

The newly created Penn State National Issues Forum will be given by John J. Curley, founding editor of *USA Today*, on Friday, Nov. 22, at the Nittany Lion Inn on the University Park Campus. A buffet lunch will begin at 11:30 a.m., followed by the 30-minute talk and a question-and-answer period.

Curley, also chairman, CEO and president of Gannett Co. Inc. and chairman of the Newspaper Association of America, will discuss "The Role of the Press in the New Media Explosion." Gannett, one of the largest news and information companies in the United States, has operations in 44 states, the District of Columbia, Guam, the Virgin Islands, Great Britain, Hong Kong and Switzerland. The company publishes 92 daily newspapers which have a combined daily paid circulation of about 6.6 million. This includes *USA Today*, which is also available internationally in more than 90 countries throughout Asia, Europe, North Africa and the Middle East.

Curley was the first editor of *USA Today*, which began publishing in 1982. He has been with Gannett since



1969, and has worked as an editor and publisher for various papers in the Gannett chain and also headed Gannett News Service for six years. During that time GNS won the Pulitzer Prize for Public Service.

In April 1983 Curley was named president of the newspaper division, and in March 1984, he became president and chief operating officer of the company. In 1986, he was made CEO and in April 1989, was named chairman, continuing as president and CEO. Curley has been a member of the board of directors for Gannett since 1983.

He received his bachelor's degree in political science from Dickinson College in 1960 and his master's degree in journalism in 1963 from Columbia University in New York. He is a trustee of Dickinson College and chairman of the Board of Visitors of Penn State's College of Communication.

The talk, sponsored by the Faculty Staff Club, will be aired at a later time on WPSU radio. Tickets for the event are \$10 and reservations can be made by mail or by stopping by the Faculty Staff Club office at 110 HUB. For more information, call (814) 865-7590.

Kickoff Bracken Lecture highlights sublime nature

Donald E. Worster, Hall Distinguished Professor of American history at the University of Kansas, will be the first speaker in this year's John R. Bracken Lecture Series. The lecture, "Nature Sublime, Nature Subdued: John Wesley Powell and the Colorado River," is scheduled for 8 p.m. Thursday, Nov. 14, in 101 Thomas Building on the University Park Campus.

Born in Needles, Calif., Worster spent the first two decades of his life in the West. He received his bachelor of arts and master of arts degrees from the University of Kansas and a Ph.D. in American studies from Yale University. He is nationally recognized for his expertise in environmental history. He taught at Brandeis University, the University of Hawaii and the University of Maine before accepting



Donald E. Worster

his current position at Kansas.

Worster is the author of numerous publications, including *Nature's Economy: History of Ecological Ideas* and *The Dust Bowl: The Southern Plains in the 1930s*, for which he was awarded the Bancroft Prize in American history in 1980. Worster also has been twice nominated for the Pulitzer Prize. In addition to those honors, he has received fellowships from the Guggenheim Foundation, the American Council of Learned Societies, the Mellon Foundation, the National Endowment for the Humanities and the Australian National University.

The Bracken Lecture Series is sponsored by the Department of Landscape Architecture in the College of Arts and Architecture and the Department of History in the College of the Liberal Arts.

The lecture is free to the public.

Explore "Cool Physics" at Nov. 11-13 lectures

William D. Phillips, Fellow at the National Institute of Standards and Technology in Gaithersburg, Md., will present the Russell Marker Lectures in the Physical Sciences on Nov. 11, 12 and 13 on the University Park Campus.

The three-lecture series, titled "Cool Physics," is sponsored by the Department of Physics and the Eberly College of Science, and is free to the public.

The schedule includes a lecture intended for a general audience: "Time, Einstein and the Coldest Stuff in the Universe," at 8 p.m. Monday, Nov. 11, in 112 Kern Building; a more specialized colloquium, titled "Optical Lattices: Atomic Physics Meets Solid State," at 3:30 p.m. Tuesday, Nov. 12, in 117 Osmond Laboratory; and a specialized lecture titled "Do We Understand Laser Cooling?" at 2:30 p.m. Wednesday, Nov. 13, in 201 Thomas Building.

Phillips heads a pioneering group in the study of laser cooling and trapping of atoms. This manipulation of the motion of atoms and other microscopic objects has wide impact on such fields as laser-induced chemistry,



William D. Phillips

precision measurement and biomedical applications.

Phillips was born in Wilkes-Barre and received his bachelor's degree in physics from Juniata College. He received his doctorate from the Massachusetts Institute of Technology in 1976 and pursued postdoctoral studies there as a Chaim-Weizmann Fellow. He joined the National Institute of Standards and Technology

in 1978 and was named a Fellow in 1995. In 1992 he was appointed adjunct professor of physics at the University of Maryland.

His honors include gold and silver medals from the Department of Commerce, fellowship in the American Academy of Arts and Sciences and the Michelson Medal from the Franklin Institute. He also is a distinguished traveling lecturer for the American Physical Society.

The Marker Lectures were established in 1984 through a gift from Russell Earl Marker, professor emeritus of chemistry, whose pioneering synthetic methods revolutionized the steroid hormone industry and opened the door to the current era of hormone therapies, including the birth control pill.

Workshop to examine "Psychology of Discipline"

Robert T. Tauber, professor of education at Penn State Erie, The Behrend College, will offer a one-day workshop based on his course Psychology of Discipline on Dec. 10 at the Penn State Scanticon. Tauber will discuss the standards upon which teachers can base their own discipline style. The workshop will emphasize developing your own discipline style as a synthesis of six main models of discipline. The Psychology of Discipline workshop will be useful to teachers, education students or others involved

in the classroom. Qualified individuals may earn one in-service credit through the CIU by engaging in independent study after the workshop.

Tauber has more than 30 years of teaching experience at both public schools and universities. He has been both a principal and a superintendent, and is the author of six books on classroom management. A reduced fee is available for full-time students. For the fee schedule and more information call Carol Hodes at (814) 865-7679 or Robert Tauber at (814) 898-6208.

Learn about Greek glassware Nov. 14

It doesn't require a lungful of hot air to produce beautiful glassware. Before the Romans invented the technology of glassblowing, the Greeks shaped hot glass on a potter's wheel into elaborate vases, cups, bowls and boxes, which reached their peak of sophistication during the Hellenistic Period, from 323 to 31 B.C.E. Classical archaeologist E. Marianne Stern will discuss "Hellenistic Luxury Glass" at 8 p.m. Thursday, Nov. 14, in 101 Kern

Building on the University Park Campus.

Stern, a native of the Netherlands, received her Ph.D. from the University of Amsterdam. Although her current focus is archaeology, she began as a classicist, specializing in Greek philology. Her study of ancient glass is more an academic: she has been a glassblower herself for 10 years.

The lecture, which is free to the public, is sponsored by the Archaeological Institute of America.

More Lectures

Program offers glimpse of little-seen America

"American Pictures," a multimedia program by Jacob Holdt, will be presented at Schwab Auditorium on the University Park Campus at 7 p.m. Monday, Nov. 11.

Portrayed in music, words and more than 3,000 photographs, "American Pictures" is Holdt's in-depth analysis of the America that he witnessed ... an America that most people have never known. Holdt hitchhiked 118,000 miles through America and lived in more than 400 homes, from the poorest sharecroppers, drug pushers and prostitutes, to some of the wealthiest families, including the Rockefellers.

Starting out with only \$40 in his pocket, Holdt sold blood twice a week in order to buy film for his camera.

For more information, contact Karen in the Office of Residence Life at (814) 863-1710.

Cézanne expert to present lecture Nov. 12

Mary Louise Krumrine, associate professor of art history, will present a lecture, "Cézanne's Cardplayers: A Game of Life," at 6 p.m. Tuesday, Nov. 12, in the Palmer Lipson Auditorium of the Palmer Museum on the University Park Campus.

An internationally recognized authority on Cézanne, Krumrine during 1996 was called on to review the Cézanne exhibition for Britain's *Burlington Magazine* while the exhibition was at the Grand Palais in Paris. This past spring she participated in the BBC production of "Three Colours of Cézanne," filmed in conjunction with the exhibition, and presented papers on the subject at the Colloque Cézanne Musée d'Orsay, Paris, and The Art and Influence of Paul Cézanne: An International Symposium at the Philadelphia Museum of Art.

The event is free to the public. Following the lecture, there will be a reception honoring Krumrine's retirement.

Wired executive to visit Penn State Behrend on Nov. 13

John Battelle, executive managing editor and one of three founding editors of *Wired* magazine, will speak at Penn State Erie, The Behrend College, at 7:30 p.m. Wednesday, Nov. 13, in the Reed Union Building Commons. His presentation, "Wired for the '90s," continues the 1996-97 Speaker Series.

A National Magazine Award-winning publication, *Wired* covers the people, companies and ideas that form the digital revolution.

Battelle, 30, joined *Wired* from *The Los Angeles Times*, where he worked after completing the master's program in journalism with an emphasis in media at the University of California at Berkeley. While in graduate school Battelle founded *The Pacific*, a magazine devoted to covering Pacific Rim issues, and before that he was a senior writer and contributing editor at *MacWEEK*, an industry trade journal.

Talk gives new view of general education

"Advising for 'The Penn State Education': A New View of General Education" is the topic of a brown-bag advising lunch, to be held from noon-1 p.m. Friday, Nov. 15, in 305 HUB at University Park. Robert Pangborn, associate dean, College of Engineering, and chair of the model subcommittee on general education, will lead the discussion. All faculty/staff interested in academic advising issues are welcome to attend.

Sponsored by the Division of Undergraduate Studies, the brown-bag lunch series provides advisers with an opportunity for professional development and networking. For more information, contact Laura Brown, 205 Grange Building, at (814) 865-7576, or LRB1@oas.psu.edu.

Social organization in East Africa probed Nov. 19

Francesca Declich from the London School of Economics and the University of Naples, Italy, will present a talk on matrilineality in East African societies from noon to 1:30 p.m. Nov. 19. Declich has lived both in Southern Somalia before the Civil War, and more recently in the Zigula region of Tanzania. Some of the Zigula she studied had lived in Somalia and had been descendants of slaves brought to Southern Somalia in the 19th century.

This talk, sponsored by the African and African-American Studies Department, will examine the importance of matrilineal social organization in modern East African societies. It is part of the Gender in Africa Speaker's Series.

Lecture ponders encounters with alien intelligence

"Human Encounters with Alien Intelligence," an illustrated lecture by Michael Lindemann, founder of the Visitors Investigation Project to conduct and publish UFO research, will be held at 7 p.m. Thursday, Nov. 21, in the Multipurpose Building at the Penn State Worthington Scranton Campus.

The lecture is free to the public.

Actress Olympia Dukakis to speak on women's issues

Olympia Dukakis, Academy Award and Golden Globe-winning actress in such films as "Moonstruck" and "Steel Magnolias," will speak about women's issues on Tuesday, Nov. 19, at 8 p.m. in Schwab Auditorium on the University Park Campus.

A 30-year veteran of stage and screen, Dukakis is a leading advocate for women's rights and an activist on other social and environmental issues. She is the creator of "Voices of Earth," a theatre project featuring four actresses who explore the relationship between women and "Mother Earth" from a historical perspective. She is a founding member of the National Museum of Women in the Arts, Washington, D.C., and a member of NOW, Women in Film, Broadway Cares, Amnesty International and New Jersey Choice.

Dukakis describes herself as

actress, director, producer, teacher, activist. She founded and served as artistic director of New Jersey's Whole Theater for 19 years, and sits on the boards of several influential arts organizations. She attained national recognition in 1988 for her work in the film "Moonstruck," winning the Academy Award for best supporting actress as well as the Golden Globe award, the New York Film Critics Award and the Los Angeles Film Critics Award.

Admission to the lecture is free, but tickets will be required. They will be available in Room 225 of the Hetzel Union Building (HUB). Dukakis's lecture, part of the Distinguished Speakers Series, is sponsored by the Programming Coordination Board and co-sponsored by the Panhellenic Council's Women's Awareness Week and The Center for Women Students.

Australian ambassador to speak Nov. 11

Ambassador John McCarthy, Australian ambassador to the United States, will speak on "Moving from Washington to Jakarta—From Warm Spot to Hot Spot?" at 1:30 p.m. Monday, Nov. 11, in 102 Weaver Building on the University Park Campus.

McCarthy is among Australia's most senior and experienced diplomats. Educated at Cambridge University, he practiced law in London and New York before his diplomatic career. That career has included earlier post-



John McCarthy

ings to Washington, D.C., ambassadorships to Vietnam, Mexico and Thailand, and service as deputy secretary of the Australian Department of Foreign Affairs and Trade. McCarthy will soon be reposted to Jakarta as ambassador to Indonesia, one of Australia's most important and sensitive relationships.

The seminar, sponsored by the Australia-New Zealand Studies

Center, is free to the public. For additional information, contact Patricia Corbett at (814) 863-1603 or by e-mail at pac9@psu.edu.

Learn to deal with disruptive students

For teachers and other professionals, dealing with students who display disruptive behaviors can be their worst nightmare. The conference "From Disrupter to Achiever—Helping All Students With Behavior and Motivation Problems Choose Success (including ADHD)," examines the failures of past approaches and proposes a new, unique and innovative approach to managing students with disruptive behaviors.

Teachers, guidance counselors, principals, administrators, school psychologists, nurses, mental health professionals, social workers and juvenile

justice officers need these vital new skills not only to help them understand and more effectively manage disruptive student behavior but also to encourage more appropriate behavior in the future.

"From Disrupter to Achiever" is being offered at both the Penn State Great Valley Campus (Nov. 22 and 23) and The Penn State Scenic (Dec. 6 and 7).

For more information about the content of the conference, please call James Levin at (814) 863-3889. For registration information, phone (800) PSU-TODAY.

Final STS talk focus to be agriculture

Herbert Cole, professor of agricultural sciences, will give the last presentation in the Science Technology and Society Fall Colloquium Series at noon Wednesday, Nov. 20, in 109 Walker Building on the University Park campus.

Cole will discuss "Sustainable Agriculture in Pennsylvania: The Sanruce Initiative." Faculty, staff, students and the community are invited to attend. For more information, contact the STS program office at (814) 865-9951.

News in Brief

Volunteers needed

Researchers in the Noll Physiological Research Center are looking for male research volunteers for a study examining the effects of regular exercise training on cardiovascular responses during exercise in the heat. Volunteers ages 18-30 or 65-75, non-smoking, are needed. One hour of supervised exercise training, cholesterol checks and body composition analysis will be provided. Anyone interested should call Carla at 865-1236.

Sessions offered

The following health-related sessions are being offered through the Office of Human Resources:

Conscious Eating

Learn how to turn lunch time into a powerful opportunity to break the stress cycle of your day and return to work refreshed and rejuvenated. Meets from noon to 1:30 p.m. Thursday, Nov. 14, in 110 Henderson Building (The Living Center). Cost: none.

Weight Watchers AT WORK

A new series meets from noon to 1 p.m. Wednesdays, Nov. 20-Dec. 18, in the Paul Robeson Cultural Center auditorium. Cost: \$115 (lifetime members, \$105). Members of the HealthAmerica HMO may be reimbursed for the cost of this program. New members are welcome at any time during a series.

Employee Assistance Program (EAP) Courses Understanding Your EAP

Meets from 1:30 to 2:15 p.m. Wednesdays, Nov. 20, in 50 White Building. Cost: none.

EAP: The Supervisor's Role

Meets from 1:30 to 3:30 p.m. Wednesday, Nov. 20, in 50 White Building. Cost: none.

To register for any health promotion program, contact Jan Hawbaker at 865-3085 or jqh3@psu.edu.

Free blood pressure screenings

Faculty/Staff Health Promotions will be offering free blood pressure screenings at the Benefits Open House from 1-3 p.m. Wednesday, Nov. 13, in the HUB Fishbowl.

Stone Valley activities

Plenty of winter activities are planned at the Stone Valley Recreation Area beginning in December.

■ **Ice skating:** The Rental Building will open for the winter season for ice skate equipment rentals as soon as weather conditions permit in December or January. (when the ice thickness reaches six inches). Rentals are available daily from 9 a.m. to 4 p.m.

■ **Ice fishing:** All Pennsylvania Fish and Boat Commission regulations apply to fishing on Lake Perez. Travel on the ice is not recommended until the ice is six inches thick.

■ **Cross country ski lessons:** One-hour group lessons are conducted each Saturday and Sunday beginning at 10 a.m. and 1 p.m. These are taught at the beginner level and organized groups can arrange for a group lesson by appointment.

■ **Skating parties:** Night skating parties can be arranged by appointment for organized groups.

■ **Cabin rentals:** Enjoy a wintry getaway at one of Stone Valley's 11 cozy rental cabins, available on a year-round basis.

For more information about any of the programs, contact the park office at (814) 863-0762.

Committee seeks nominations for honorary degree awards

President Graham B. Spanier has appointed a Committee on Honorary Degrees and asked it to develop a list of eminent scholars, performers, artists and practitioners in academic fields or individuals who have made particularly distinguished contributions to society in areas such as public service, business or government for the purpose of awarding a Penn State honorary degree.

The committee is seeking a list of nominees for the award. The guidelines, as approved by the Board of Trustees, list the following criteria for eligibility:

■ **Sustained achievement** and distinction of national or international significance in an activity consonant with the mission of the University.

■ **Alumni of the University** are eligible.

■ **People serving as administrators, faculty or staff** are not eligible, nor are those who currently serve as members of the Board of Trustees, as officials of the Commonwealth and its subordinate

units or members of the state Legislature during their terms of office; spouses or immediate family members of these groups also are not eligible.

■ **Individuals whose achievements and distinction** have not been similarly recognized by a number of other institutions is encouraged.

Rodney A. Erickson, dean of the Graduate School, is chairman of the committee. Committee members include:

— **Greg Bednarski**, undergraduate student;

— **John A. Dutton**, dean, College of Earth and Mineral Sciences;

— **Gordon P. Carmire**, Evan Pugh professor of astronomy and astrophysics;

— **Desha M. Girod**, undergraduate student;

— **Grace Hampton**, executive assistant to the provost for the development of the arts;

— **Carol Herrmann**, senior vice president for administration, ex officio;

— **Lynn S. Liben**, professor of psychology;

— **John M. Lilley**, provost and dean, Penn State Erie, The Behrend College;

— **Charles L. Merkle**, professor of mechanical engineering;

— **Jay Parkes**, graduate student;

— **Barbara M. Shannon**, dean, College of Health and Human Development;

— **Catherine Shultz Rein**, Alumni Association representative;

— **Elizabeth Susman**, professor of biobehavioral health, human development and nursing; and

— **Elliot S. Vesell**, Evan Pugh professor and chair of pharmacology.

All nominations are welcome and should include the name, a short biography of the individual and a statement explaining why the nominee is worthy of recognition. Send nominations to **Sharon Becker**, 201 Old Main, University Park, Pa. 16802 by Friday, Nov. 22.

Holiday decorating workshop to be at Scanticon Nov. 17

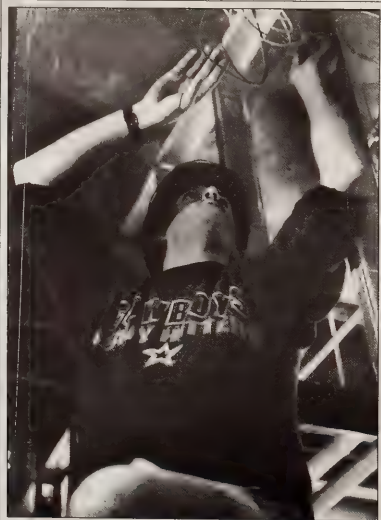
The Penn State Scanticon at University Park will host the Second Annual Holiday Decorating Workshop from 1-4 p.m. on Sunday, Nov. 17.

Tickets are \$15 in advance or \$17 at the door and include a "classic tea" reception. All proceeds benefit the Toys for Tots Foundation. Last year, the event raised \$2,800.

The theme is "A White House Christmas in Happy Valley," and will be led by nationally recognized florists **Dan Firth** and **Ken Kreamer**. Guests will learn different approaches to decorating various sites in their home.

Firth was a florist for the Reagan administration and was part of the floral design team for the Bush inauguration. He also was responsible for a Tournament of Roses Parade float in 1994.

Kreamer is a certified master designer through FTD and has won several state floral competitions. Both men are donating their time for this event to help the Toys for Tots Foundation.



Watt's up?

Steve Besacker, one of five electricians assigned to construction of new classrooms in Rec Hall on the University Park Campus, is wiring this room so that exercise and sports science majors can electronically test the effectiveness of athletic protective equipment. This photo was taken by student Adam Balkin for a photojournalism class.

Deadline near for King Day honor recommendations

The deadline is quickly approaching for recommendations of individuals, organizations and programs to be honored at the Martin Luther King Jr. Day dinner on Jan. 17 for "Living the Dream" as envisioned by King.

The Forum on Black Affairs will honor those who are local examples of one of King's seven principles — persistence, selflessness, love, risk, conviction, collaboration and faith — and of how King's dream is being realized today.

"We wanted to make Dr. King's dream accessible to the University and community by giving people the opportunity to look at the dream from their perspective," committee member Gary Abdullah said. "While it's easy to remember Dr. King's message in abstract terms, it's crucial to find examples of how his legacy is being carried out today."

The committee wants to emphasize that the principles King stood for, such as the interrelatedness of all communities, self-sacrifice and justice, are as relevant today as they were in his time.

"When we look at some of the global and societal issues facing us, Dr. King's words offer us guidance for how we could have a positive impact in today's world," said Grace Hampton, committee chair.

Send written recommendations of no more than two pages to Hampton at 216 Wagner Building, University Park, Pa. 16802. Recommendations should include one principle; a description of the contribution of the individual, organization or program; and an explanation of why the nominee reflects the principle. All recommendations must be received by Monday, Dec. 9.

In addition to Hampton and Abdullah, members of the Martin Luther King Jr. dinner planning committee are: Charles Dumas, Department of Theatre Arts; Tony Leach, Department of Music; Melisande McCrae, Department of Public Information; Tom Poole, educational equity; and Ashley Milburn, community representative.

University Planning Council plans several open sessions

The University Planning Council is holding several open meetings to discuss strategic planning issues. Some meetings have already taken place. Upcoming meetings include:

College Sessions

■ Agricultural Sciences

Nov. 25, 10:30-11:30 a.m.
324 Agricultural Science and Industries Building

■ Arts and Architecture, University Libraries

Nov. 11, 4-5 p.m.
Palmer Lipcon Auditorium

■ Communications

Nov. 22, 3-4 p.m.
Carnegie Cinema

■ Eberly College of Science

Nov. 13, 2:30-3:30 p.m.
104 Thomas Building

■ Education

Nov. 13, 2:30-3:30 p.m.
109 Chambers Building

■ Engineering

Nov. 13, 10-11 a.m.
Stavely Conference Room, 256 Hammond Building

■ Liberal Arts

Nov. 14, 9-11 a.m.
Place to be announced

■ Smeal College

Nov. 5, 1:30-2:30 p.m.
807A Business Admin Bldg.

General Sessions

■ Findlay Dining Commons
(Shields Bldg.)

Nov. 14, 1-2 p.m.

Findlay Commons
(Monterey Room)

■ Kern

Nov. 7, 2-3 p.m.
112 Kern Building

■ Willard Building

Nov. 18, 8:30 a.m.
Willard Building

■ Office of Physical Plant

Nov. 22, 9-10 a.m.
105 Physical Plant Conference Room

■ University Club

TBA

Campus Visits

■ Altoona

Nov. 26, noon-1 p.m.

■ Great Valley

Nov. 12, 2-4 p.m.
126 Great Valley Center

■ Harrisburg

Nov. 26

■ The Hershey Medical Center

TBA

University Committees

■ Academic Leadership Forum

Nov. 7, 8 a.m.-1:30 p.m.
Scanlon

■ Commonwealth College

See memo dated Oct. 16 to UPC from
Louise Sandmeyer.



Learning from masters

Jeff Moss, producer and director of "Annie Get Your Gun," center, gives some pointers to students Jesse Benz, left, and Joe Thompson. Moss and Dennis Van Parys music director for the show, conducted a master's class for a music, theatre and studio class taught by Edward R. Linderman, assistant professor of theatre arts, on the University Park Campus.

Photo: Greg Grieco

Bookshelf

Gideon S. Golany, distinguished professor of urban design in the College of Arts and Architecture, Department of Architecture, has recently published his 26th book, *Geo-Space Urban Design*, the book he co-authored with Toshio Ojima, a professor of architecture at Waseda University, Tokyo, is a culmination of research done over the last 12 years on subterranean and slope dwellings in indigenous populations.

The term "geo-space" refers to spaces within, though not necessarily below, the ground. Geo-space can refer to subterranean dwellings, but it includes spaces incorporated into slopes, hills or any area which allows living space within the earth while preserving and enhancing uninterrupted access to sunlight.

What *Geo-Space Urban Design* offers is a proposed solution for many contemporary urban problems. Golany contends that geo-space and subterranean structures are a logical, feasible and affordable solution for urban overcrowding, land preservation, resource efficiency and environmental protection.

His book examines the practical aspects of implementing geo-space communities, addressing everything from perceptions and psychological bias toward geo-space living to site selection and a comparative study of geo-space land management versus more traditional land use solutions for crowded areas. A portion of the book is dedicated to a study of geo-space use in modern Japan, where transportation, storage and shopping centers are all below ground.

Appointments

Graduate School names associate dean, senior mentor

Blannie E. Bowen has been named associate dean of the Graduate School and senior faculty mentor in the Center for Minority Graduate Opportunities and Faculty Development. Bowen is C. Lee Rumberger and Family professor of agriculture in the Department of Agricultural and Extension Education, and had previously served as interim senior faculty mentor in the Graduate School from August 1993 to May 1994, and from July 1995 to September 1996.

Bowen joined the College of Agricultural Sciences faculty in 1988, having previously held faculty positions at The Ohio State University and Mississippi State University. From 1990 to 1992, he was interim head of the Department of Agricultural and Extension Education.



Blannie E. Bowen

Bowen holds a Ph.D. from The Ohio State University. His teaching and research interests have focused in the area of communications in agricultural education. Since joining the Penn State faculty, he has served on the University Promotion and Tenure Review Committee, the advisory board of the Center for Minority Graduate Opportunities and Faculty Development, the University Faculty Senate, the Palmer Faculty Mentoring Award Selection Committee, and the search committee for the dean of the College of Agricultural Sciences. He has been the recipient of numerous research, teaching and service awards from several universities and professional organizations.

As associate dean, Bowen will have responsibilities for graduate programs administration. In his role as senior faculty mentor, he will provide programs and activities to assist junior minority faculty in securing tenure and advancing through the academic ranks. Bowen also will continue an active program of teaching and research in the Department of Agricultural and Extension Education.

Graduate Enrollment Services promotes longtime employee

Cynthia E. Nicosia has been named director of the Office of Graduate Enrollment Services in the

Graduate School. She was formerly assistant to the director of Graduate Admissions and Programs. Nicosia received a B.S. degree in therapeutic recreation from Penn State in 1975. She joined the Penn State staff in 1975 and the Graduate School in 1978, and has served in several different roles in the graduate admissions and programs areas.

The Office of Graduate Enrollment Services combines the former functions of the Office of Admissions, the Office of Graduate Programs, the Thesis Office and a part of the Office of Data and Analysis into a single administrative unit. The purpose of the reorganization is to promote greater administrative efficiency while enhancing services to graduate applicants, matriculated students and departments and colleges in one central unit located in 114-115 Kern Graduate Building.



Cynthia E. Nicosia

Promotions

Staff

Toni A. Aikens, financial aid and veterans assistant at Penn State Beaver Campus.

Antoinette A. Bayles, administrative specialist in Student Affairs.

Shirley A. Berkheimer, respiratory therapist at The Hershey Medical Center.

Jayne L. Bowman, staff assistant VI at Hershey Medical Center.

Deloris A. Brobeck, staff assistant VI in the Office of the Vice Provost and Dean for Undergraduate Education.

Denise R. Brooks, development assistant, in Division of Development and Alumni Relations.

Lisa S. Brown, staff assistant V at The Hershey Medical Center.

Thompson A. Buchan, senior micro-computer systems consultant in Commonwealth Educational System.

Joyce A. Buerk, staff assistant VI at The Hershey Medical Center.

Vicki K. Carter, instructional designer in Commonwealth Educational System.

Linda A. Collins, research support technologist III in Eberly College of Science.

Jamie A. Corman, staff assistant V in Eberly College of Science.

Gloria J. Dimick, senior research technician in College of Agricultural Sciences.

Edward C. Dumond, computer and technology specialist in College of the Liberal Arts.

Bruce T. Einfall, associate research engineer in Applied Research Laboratory.

Le Etta J. Estling, coordinator, college relations in College of Health and Human Development.

Lyne L. Fazio, staff assistant V at Penn State Worthington Scranton Campus.

Judy E. Flynn, staff assistant VI in Eberly College of Science.

Kevin M. Friedel, respiratory therapist at The Hershey Medical Center.

Bernard J. Furr, orthotist at The Hershey Medical Center.

Linda J. Greenawalt, staff assistant VI in College of Earth and Mineral Sciences.

Lorraine S. Haines, senior applications programmer/analyst in Office of University Registrar.

Anna M. Harshman, administrative assistant in Research and Graduate School.

Ann M. Haupt, engineering/administrative aide in Office of Physical Plant.

Edward M. Hayes, lead applications programmer/analyst in Computer and Information Systems-Administrative Systems.

Julie A. Hershbine, accounting assistant in Student Affairs.

Claudia J. Holtzman, business analyst II at The Hershey Medical Center.

Deanna L. Hunt, staff assistant V in Division of Development and Alumni Relations.

Heide Huyck, technician-research at The Hershey Medical Center.

Marguerite Infantino, coordinator, residency programmer at The Hershey Medical Center.

Linda L. Jones, staff assistant VIII in Applied Research Laboratory.

Pamela R. Kauffman, assistant to the director for business operations in Applied Research Laboratory.

Mark T. Keller, associate research engineer in Applied Research Laboratory.

Stephanie L. Kroust, staff assistant V in Research and Graduate School.

Lorna L. Lausch, staff assistant V at The Hershey Medical Center.

Kay M. Livelsberger, coordinator, medical education and alumni affairs at The Hershey Medical Center.

Daniel A. Macaluso, director of development in Division of Development and Alumni Relations.

Kathie C. Merrill, staff assistant V in Commonwealth Educational System.

Deborah A. Metzler, information systems support consultant in Computer and Information Systems-Center for Academic Computing.

Jeane M. Meyer, staff assistant VII at The Hershey Medical Center.

Thomas G. Miller, research support assistant at The Hershey Medical Center.

Holly J. Muir, administrative assistant III in College of Engineering.

Marilee R. Mulvey, supervisor, Computer and Information Systems at Penn State Worthington Scranton Campus.

John E. Park, assistant director in Continuing and Distance Education.

Christine M. Patanow, research support assistant at The Hershey Medical Center.

Eileen Pennisi, training and support specialist in College of Education.

James E. Raabe, assistant research engineer in Applied Research Laboratory.

Cynthia D. Raynak, instructional designer in Commonwealth Educational System.

Cynthia A. Reed, senior technician at The Hershey Medical Center.

Jeffery C. Renner, computer support specialist in College of Agricultural Sciences.

Paul J. Richards, project associate in College of Agricultural Sciences.

Paula Royer, staff assistant VII in Computer and Information Systems-Administrative Systems.

Kathy L. Seitzinger, staff assistant VI at The Hershey Medical Center.

Lisa M. Sennett, research support technologist II in College of Health and Human Development.

Jenkin P. Shaw, mechanical/electrical engineer in Office of Physical Plant.

Carol M. Sivley, clinical nurse specialist at The Hershey Medical Center.

Kim M. Smith, staff assistant V at The Hershey Medical Center.

Russell A. Sodergren, information systems support consultant in Computer and Information Systems-Administrative Systems.

Heather G. Treaster, staff assistant VII in College of Agricultural Sciences.

Margaret M. Tromm, library supervisor II at Penn State Altoona Campus.

Diane L. Vitaneve, staff assistant V at Penn State Hazleton Campus.

Sheryl L. Vuich, director, enrollment management at Penn State Beaver Campus.

Susan L. Walker, administrative assistant III in University Libraries.

Jacqueline Walters, counselor at Penn State Hazleton Campus.

Elizabeth M. Watkins, alumni and development specialist at Penn State Hazleton Campus.

Andrew T. Wallis, senior officer, information specialist, Commonwealth Educational System.

Taking the lead in researching the honey bee crisis

By CHUCK GILL

College of Agricultural Sciences

Honey bees are dying by the millions in the United States. And if you think that doesn't affect you, think about what your diet would be like without apples, cherries, plums, pears, berries, melons, pumpkins and other fresh fruits and vegetables — not to mention honey.

Honey bees play a part in the production of an estimated one-third of the typical American diet. Nationwide, about \$10 billion worth of crops are pollinated by honey bees, helping to provide a living for commercial beekeepers, who often rent their hives to fruit and vegetable growers in need of crop pollination.

In the last 10 years, two kinds of parasitic mites have teamed up with harsh winter weather to decimate both domestic and wild bee populations, wiping out some beekeeping operations and creating a critical shortage of honey bees for pollination. From 1981 to 1995, Pennsylvania's commercial honey bee population fell from 85,000 colonies to just 27,000 colonies. Solutions for this growing crisis have been elusive.

As a result, the College of Agricultural Sciences is taking the lead to launch a multi-state research and cooperative extension program aimed at fighting parasitic mites and educating beekeepers on the latest management practices.

"Last winter, beekeepers in the northeastern United States experienced a devastating die-off of honey bees," Scott Camazine, assistant professor of entomology who will lead the regional effort, said. "Colony losses ranged from 40 percent in Delaware to 53 percent in Pennsylvania to 80 percent in Maine," Camazine said. "Tracheal and varroa mites are believed to be the major contributing factor in these colony deaths. But viruses and other pathogens — possibly introduced by mites — also may be involved."

Tracheal mites are microscopic creatures that infest bees' breathing tubes. These parasites first were found in the United States around 1983. Varroa mites, which appeared in this country in 1987, are external parasites sometimes visible to the naked eye.

Because so little is known about this mite-disease combination, called "parasitic mite syndrome," beekeepers are at a loss to protect their colonies, especially since chemical controls for the mites are limited.

The regional mite management effort will involve land-grant univer-



Scott Camazine, assistant professor of entomology, is leading the regional effort to find a way to rescue honey bees from killer parasites. At right, a drone bee is infested with both immature (white) and adult (shiny dark) *Varroa jacobsoni*, or varroa mites.

Photo: Greg Grieco

sities, state departments of agriculture, beekeeper organizations and others in Pennsylvania, New Jersey, Delaware and Maryland. A working group of three people from each state, as well as a representative from the USDA/Agricultural Research Service, will identify short- and long-term research needs and potential funding sources. Penn State will administer the program and provide training and information on honey bee management to cooperative extension educators from the four states.

"We need research to solve the mystery of exactly why these mite-infested bees are dying," Camazine said. "Do the mites directly damage worker bees? Do they spread viral infection or weaken the bees' immune system, allowing other diseases to kill the colony? Do mite-infested bees have lower cold tolerance? This knowledge could help us to develop new control strategies or to identify desirable traits to select for in breeding programs. Other studies should be conducted to evaluate whether specific lines of honey bee stock are resistant to mites."



Photo: Scott Camazine

Some research already is under way. The Pennsylvania Department of Agriculture recently awarded nearly \$70,000 to Penn State for a project to determine how mites and mite-related diseases affect the health and productivity of honey bee queens.

For more information, visit the bee research Web site. Start at the entomology home page at <http://www.ento.psu.edu/> then click on PSUbees.

Lab results, real world out of sync

The way that soil minerals break down and how they react with groundwater are important bits of information for anyone studying groundwater pollution and soil contamination, but sometimes the information gathered in the lab doesn't quite match what happens in the real world, according to Penn State geologists.

"It's fairly well known that weathering experiments in the lab don't match natural weathering mechanisms," Melissa A. Nugent, graduate student in geosciences, said. "Laboratory rates are often several orders of magnitude faster than those observed in natural environments."

Nugent, Susan L. Brantley, associate professor of geosciences, and Yang Chen, a recent Penn State graduate, looked at samples of the mineral albite feldspar from Quebec that had been buried in central Pennsylvania soil and removed after six months, one year and two years to try to understand the mechanism of weathering.

When minerals weather in nature, molecules in the rock dissolve in groundwater, react to form coatings, form other minerals or simply wear away. In the laboratory, researchers are usually only looking at one process at a time, which may explain the discrepancies with the natural world.

"Our investigation of the surface of the feldspar after it was in the ground shows an initial slight decrease in aluminum on the surface and then an increase in the concentration of aluminum on the surface," Nugent said.

The geologists also are monitoring conditions in the field where the feldspar samples are buried, recording acidity, water volume and ion concentrations to try to understand the mechanisms under way in the soil.

"If we know the saturation state and other kinetic variables for both the laboratory and field experiments, then we should be able to compare the results of both and better understand what is happening in the soil," Nugent said.

Also working on this project are Carlo Pantano, professor of ceramic science, and Daniele Chermak, department of earth and environmental science at Rensselaer Polytechnic Institute.

ATHLETICS

A regular column provided by Intercollegiate Athletics

High honors

One of the highest academic and athletic honors a collegiate football player can earn has been bestowed upon Penn State quarterback Wally Richardson. The fifth-year senior from Sumter, S.C., was chosen as one of 16 National Football Foundation and College Hall of Fame Scholar-Athletes. More than 200 nominees were submitted for the award, which includes an \$18,000 grant for postgraduate study. Richardson will be honored at the Foundation's 39th Annual Awards Dinner on Dec. 10. He is the 13th Nittany Lion to be so honored and the third in as many years.

Ticket madness

Season ticket totals in both men's and women's basketball reached an all-time high for the campaigns that recently got under way this month. Penn State ticket Director Bud Meredith reports that the men's sale was 10,300 while the Lady Lions had 3,600 season ticket orders. For information on single game tickets for Penn State basketball, fans can call (814) 865-5555 or (800) 863-3336.

Tournament play

Coach Barry Gorman's Nittany Lion soccer team will host the Big Ten Tournament at Jeffrey Field the weekend of Nov. 15-17.

Carpoolers

Carpooler wanted from Phillipsburg/Houtzdale area to University Park Campus Monday through Friday. Work hours are from 7 a.m. to 4 p.m. E-mail Stacy at s2s6@psu.edu if interested.

Intercom online

You can see portions of this issue on the World Wide Web.

To access the current issue, go to the University Relations home page at <http://www.ur.psu.edu/> and click on the Intercom button. While you're there, why not take part in Intercom's online readership survey. Click on the text that says "Intercom Readership Survey" and answer a few short questions. Your answers will be helpful in guiding the Intercom staff in its work.



In the swim of things

The McCoy Natatorium on the University Park Campus has much to offer, even during the winter months. Above, Sue Shuey, poolside, leads a group of participants in a session of "AquaSize." At left, dive Coach Kim Brown works with her beginner "Learn to Dive" students to get their diving form just right. These classes are only two of the many offered throughout the year that are open to anyone residing within a 50-mile radius of the University. For more information on either class or on other classes offered at the Natatorium, call (814) 865-1432

Photos: Andrea Hurley

PENN STATE



INTERCOM

Department of Public Information
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Getting ready

Melisande McCrae, left, and Charlene H. Harrison, director of adult learner services, are gearing up for the popular *Time Out* Penn State interview series. McCrae is producer of the segments, and also will be host for many of them.

Photo: Greg Grieco

University takes a "Time Out"

Popular halftime interview show starts second season

By ANNEMARIE MOUNTZ
Public Information

For the second year in a row, Penn State is going live outdoors during televised home Nittany Lions and Lady Lions basketball games with its popular *Time Out Penn State* series.

Each year, broadcasters provide the University with free air time during televised games to introduce viewers to the institution and talk about what Penn State has to offer. Instead of filling all of the time with a pre-recorded mes-

sage as many institutions do, the University is taking the opportunity to reach out to hundreds of thousands of potential viewers with live — and lively — conversation.

"It's great to be able to capitalize on the popularity of Penn State basketball to showcase other aspects of the University. The staff at WPSX-TV has been instrumental in helping us do that," Melisande McCrae, manager of electronic communications in the Office of Public Information and producer of *Time Out Penn*

See "Time Out" on page 3

Penn State honored for environmental programs

Two environmentally friendly programs at Penn State — the development of PennMulch and recycling at Beaver Stadium — received 1996 Governor's Awards for Environmental Excellence.

Offered by the Pennsylvania Department of Environmental Protection's Office of Pollution Prevention and Compliance Assistance, the awards were presented in four categories: education and outreach; pollution prevention; recycling and market development; and technology innovation.

Penn State and PennTurf Products Inc. received their award for a nonprofit and non-manufacturing small business in the technology innovation category for the development of PennMulch, a material used for mulching turfgrass seedbeds.

PennMulch, a weed-free, easy-to-store and use material, is manufactured from recycled newspaper that is shredded, combined with a starter fertilizer and green dye and then pelleted. The mulch pellets expand when wet, allowing a small quantity to cover a large area — a six-pound bag covers up to

See "Honored" on page 3

Planning Council seeks employee suggestions

The University Planning Council, the group charged with reviewing Penn State's core functions and practices, is seeking suggestions and comments from the University community in order to better direct the University's future.

In addition to the host of meetings being held across the University (see Nov. 7 *Intercom*, page 13), UPC members would also like faculty, staff and students to feel free to e-mail suggestions to them at Response@psu.edu or to forward written comments to the Center for Quality and Planning in 303 Old Main. All suggestions will be forwarded to the UPC.

UPC members are particularly interested in suggestions or comments dealing with:

■ Actions Penn State should take to improve the quality of programs.

■ Important program areas to emphasize as we approach the year 2000.

■ Areas where efficiency and effectiveness can be improved.

■ Areas that should be ranked as priorities.

The meeting scheduled for 8:30 a.m. Nov. 18 will be held in 203 Willard Building.

Inside



Early deadline

Because of the Thanksgiving holiday, there will be no *Intercom* on Nov. 28. In addition, story deadline for the Dec. 5 *Intercom* will be noon Tuesday, Nov. 26. Please mark your calendars.



Research

Study results indicate that birds and mammals may have lived alongside dinosaurs. For details, please see the story on page 11.

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Hershey adds marrow transplantation program

The Milton S. Hershey Medical Center has launched its new bone marrow transplantation program, offering an alternative to patients who currently must travel to Pittsburgh, Philadelphia or Baltimore for the procedure.

Bone marrow is the tissue that manufactures various components of the blood and the immune system, like red blood cells, white blood cells and platelets. Bone marrow transplantation involves taking healthy bone marrow from a donor and transplanting it into a patient who is suffering from a blood disease such as leukemia, aplastic anemia or a number of other immune system disorders. The patient usually receives intensive chemotherapy and/or radiation therapy to destroy all cancerous cells.

As part of the Hershey program, a bone marrow transplantation lab was opened at the medical center, where bone marrow and blood cell col-



are seeking special cells in the bone marrow that are capable of reproducing themselves and generating other cells that evolve into white blood cells, red blood cells and platelets. Blood is extracted in a simple surgical procedure under general or spinal anesthesia. Two percent to 5 percent of the donor's liquid marrow is extracted from the back of the

lection or "harvesting" for transplantation takes place. The medical center also has created a new sterile unit on a regular hospital floor where recipients are hospitalized for the transplantation procedure.

The process of harvesting bone marrow is a relatively simple one, according to Hershey experts. Physicians are seeking special cells in the bone marrow that are capable of reproducing themselves and generating other cells that evolve into white blood cells, red blood cells and platelets. Blood is extracted in a simple surgical procedure under general or spinal anesthesia. Two percent to 5 percent of the donor's liquid marrow is extracted from the back of the

pelvis through a special needle and syringe. After the marrow collection procedure, the donor may experience slight discomfort for a week or so in the lower back. The marrow replenishes itself within a few weeks.

An estimated 40,000 adults and children are stricken with leukemia, lymphoma, Hodgkin's Disease and other blood-related cancers each year. In some cases, marrow transplantation is the only hope for survival. Bone marrow transplantation subjects the body to enormous strain and is only an option for people who, apart from their disease, are in good general health.

The new 14-bed unit, which includes four special isolation rooms, has been established on the seventh floor of University Hospital. The bone marrow transplantation program is directed by Dr. Witold Rybka, chief of hematology and oncology.

University has experiment aboard next shuttle launch

By BARBARA HALE
 Public Information

Penn State researchers, in cooperation with their commercial partner Abbott Laboratories, have designed an experiment to explore whether Bt, a commercially available, environmentally friendly, biopesticide, can be improved by growing it in microgravity.

The experiment will be flown aboard the STS-80 mission on the Space Shuttle Columbia, which is scheduled to launch Friday, Nov. 15.

Zane Smilowitz, professor of entomology, and William McCarthy, associate professor of entomology, are co-principal investigators.

Abbott Laboratories, based in North Chicago, Ill., is the world leader in manufacturing and production of Bt-based control agents. Its agricultural products group is one part of a worldwide health care company employing 52,000 people. Bt products are manufactured and used globally to control pests such as beetles, caterpillars, moths, mosquitoes and blackflies. Bt, in commercial use for more than 25 years, is lethal to pests but non-toxic to beneficial insects, people and the environment.

Researchers hope the space experiment will provide leads or insights that will allow them to use available molecular biology tools to develop new safe and effective biological control agents that are either more potent or that expand the present insect target groups.

McCarthy of Penn State explains that Bt's pesticide activity is the result of one or more proteins packaged in a crystal produced by the microbe. Different strains of Bt produce different crystals composed of one or more proteins which are active against various pests. Crystal production is directed by one or more genes.

Two strains of Bt will be aboard Columbia — Btt, active against beetles, and Btk, active against caterpillars. Experiments with the microbes

will focus on whether growth in microgravity causes a change in the size, shape and/or toxicity of the crystals. The researchers suspect that space flight could affect Bt in this way because exposing other microbes to microgravity has changed their metabolism and growth. In addition, growing protein crystals from solution in space often produces larger and better formed crystals.

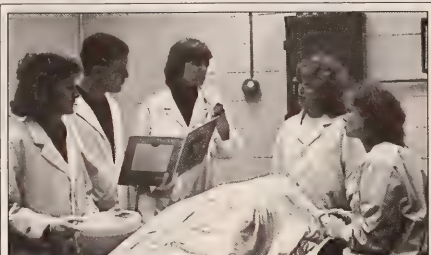
"The crystals Bt produces on Earth are usually somewhat deformed. In microgravity, we think that they should approach their ideal shape," Smilowitz said.

So Bt has only one gene directing protein crystal production, the experiment with that microbe may enable the researchers to trace changes in the size, shape or composition of the crystal to specific changes on the gene. Btk, on the other hand, has multiple genes directing protein crystal production. When different combinations of the genes are turned on, the protein composition of the crystals may change, leading — in some cases — to a change in crystal shape. A control experiment on the ground will enable the researchers to compare results and identify microgravity effects.

Follow-up studies when the shuttle returns to Earth will be conducted at Penn State and Abbott's Research Center. Penn State's Electron Microscopy Laboratory, under the direction of Rosemary Walsh, will be involved along with Smilowitz's and McCarthy's laboratories.

Bryan Severny, an M.S. candidate in entomology, is assisting the Penn State team. Robert Cibulsky, Dennis Edwards and Robert Smith are Abbott's representatives in the research project.

The Bt experiments will be conducted aboard the shuttle in NASA's Bioprocessing Modules (BPM) by Astronauts Story Musgrave and Kent Rominger.



Hands-on training

Dr. Susan Monk, assistant professor of kinesiology at Penn State Berks Campus, center, uses a cadaver to teach anatomy to occupational therapy students Audrey Mast, left, Jeffrey Weikel, Audrey Skowronski and Andrea DeLong.

Cadaver gives students a unique learning experience

One man's gift to science is providing a valuable learning experience for hundreds of occupational therapy and biology students at Penn State Berks Campus.

The embalmed body of a 71-year-old cancer victim is being dissected by four occupational therapy students under the direction of Susan Monk, assistant professor of kinesiology. Monk worked for two years to obtain the cadaver from The Hershey Medical Center. "I kept saying to myself, 'If only my students could do this,'" Monk said. "I thought what a learning experience it would be. Otherwise they're just trying to memorize terms."

She chose four students to con-

duct the dissection: Andrea DeLong, Audrey Mast, Audrey Skowronski and Jeffrey Weikel.

The students, who devote several hours a week to the dissection, will not receive credit for their work.

"It's just an invaluable practical learning experience," DeLong said. "Textbook pictures don't do justice," Weikel added. "With the cadaver, you can actually see everything and how it works."

The cadaver's head is wrapped to preserve the individual's dignity. "The student interest in this has been overwhelming," Monk said. "I've had students come up to me and thank me for doing this."

Articulation agreement is signed

Elizabethtown College business students will now find the transition into two Penn State Harrisburg graduate programs considerably easier thanks to an articulation agreement signed Nov. 4 between the two institutions.

The agreement will permit qualified business students at Elizabethtown to apply for admission into the

master of business administration (MBA) and master of science in information systems (MSIS) programs at Penn State Harrisburg as early as the end of their junior year.

Students admitted into either master's program must complete bachelor's degree study at Elizabethtown before matriculating at Penn State Harrisburg.

Honored

Continued from page 1

100 square feet. Mulching speeds both plant germination and growth and reduces the potential for soil erosion and weed invasion.

Invented by agronomy instructor George Hamilton, it is patented by Penn State and licensed by PennTurf Products of State College, which developed the full-scale manufacturing process and the North American distribution network, including 35 distributors in 30 states and Canada.

According to the award citation, "PennMulch is being widely accepted as a convenient, efficient and cost-effective way of mulching turfgrass seedbeds. The biodegradable PennMulch pellets can be spread easily by hand or spreader, eliminating the need for expensive equipment such as hydroseeds or straw blowers. In 1995, the first full year of production, more than two million pounds of PennMulch were sold, and sales are steadily increasing. The vast majority of PennMulch has been sold to the professional turfgrass market."

The turfgrass industry, including athletic fields, golf courses and home lawns, is a \$1.4 billion business in Pennsylvania alone.

The Beaver Stadium recycling program, which received an award for a public agency in the recycling and market development category, is a joint project of Penn State and the Centre County Solid Waste Authority.

"The Penn State Beaver Stadium Recycling Effort is unique among universities in the country. Although Pennsylvania has a statewide recycling goal of 25 percent by 1998, Penn State is already recycling at a 41 percent rate. The average tonnage recycled during a football season has risen from two to 34 tons. As a result, Penn State has avoided more than \$2,400 in garbage tipping fees, reduced man hours by 15 percent for post-game clean up, saved approximately \$6,283 and earned \$11,019, which was donated to the United Way of Centre County," according to the award citation.

The recycling program was developed by the Department of Intercollegiate Athletics, the Office of Physical Plant and the Waste Authority with help from the Juniata Valley Boy Scout Council, the Hemlock Girl Scout Council and the partnership of a local scrap dealer, the Steel Recycling Institute and the Glass Packaging Institute.

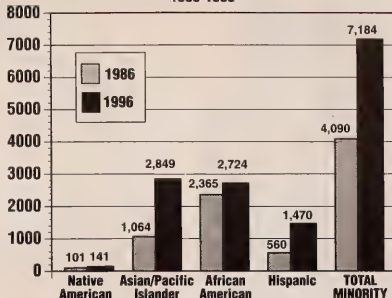
For descriptions of other winners, visit the Department of Environmental Protection Web site at <http://www.dep.state.pa.us> and choose Pollution Prevention & Compliance Assistance.

For more information on the recycling program, contact Al Matyasovsky, who oversees Penn State's recycling efforts, at (814) 863-4719, or Joanne Shafer, Centre County recycling coordinator, at (814) 238-7005. For information on PennMulch, contact George Hamilton at (814) 865-3007, or Marty Bradley, PennTurf Products, at (814) 234-0391.

FAST FACTS

DECADE AT A GLANCE

Minority Enrollment
1986-1996



Source: Office of Budget and Resource Analysis/
Office of University Registrar (October 1996)

A quick look at the graph above shows the growing numbers of underrepresented students attending Penn State and the steady progress achieved over the last 10 years. In a recent report to the Board of Trustees from Trustee Donald Cook, everything from Penn State's head counts and programs, to legal issues and retention rates were examined. For the full text of Cook's talk and statistics, log-in to the University Relations home page at <http://www.ur.psu.edu> and click on the button labeled "Office of the President."

Time Out

Continued from page 1

State, said. McCrae is also host for many of the segments.

The show's second season began Nov. 13 with the first of 14 scheduled interviews.

Each three- to eight-minute *Time Out Penn State* will feature University faculty, staff, students or administrators discussing a variety of topics including an inside look at training for a space shuttle mission; how Penn State students are getting a jump on the job market; and tips on spotting behavior problems in young children.

Most of the interviews will air regionally, hitting the major television markets in Pennsylvania including Philadelphia and Pittsburgh. The remaining segments will be shown in all of the Big Ten markets. Kim Yarnell Bierly, television network coordinator in the Office of Public Information, is assistant producer.

"This has been a tremendously suc-

cessful vehicle for showing Pennsylvanians the good things that Penn State is doing," Stephen J. McCarthy, executive director of University Relations, said. "This University does more to enrich the Commonwealth than any other entity in the state, and we need to make more people aware of these contributions. *Time Out Penn State* provides us with a great opportunity to do that."

The idea for the show came last year from President Graham B. Spanier, who was the first guest to go live on the spot. He initially suggested the idea of a live program because he liked the interaction and immediacy that live programming provides.

The next *Time Out Penn State* will air during halftime of the Nov. 26 Lady Lions basketball game vs. Seton Hall. Remaining shows are scheduled for halftime of men's and women's home basketball games on Dec. 7, 22 and 27; Jan. 4, 15 and 17; Feb. 1, 7, 15, 19 and 23; and March 1.

Promotions

Staff

James R. West, senior applications programmer/analyst in Office of University Registrar.

Marianne E. Williams, senior technician-research at The Hershey Medical Center.

Ray W. Witmer, senior project associate in College of Agricultural Sciences.

Beth A. Witter, staff assistant VII in Commonwealth Educational System.

Timothy J. Yanchuck, senior computer tomography radiological technician at The Hershey Medical Center.

Patricia A. Yarian, staff assistant VII at The Hershey Medical Center.

Martha A. Zimmerman, staff assistant VI in Commonwealth Educational System.

Technical Service

Edward T. Barrick, maintenance mechanic C at Penn State Harrisburg.

John R. Bathurst, maintenance worker-insulating in Office of Physical Plant.

John D. Bumbarger, maintenance worker utility in Office of Physical Plant.

Jefferey L. Douglas, residence hall utility worker in Housing and Food Services.

Larry A. Heaton, lead maintenance mechanic, utilities piping in Office of Physical Plant.

Alan E. Heimbach, deli worker in Housing and Food Services.

David Kresovich, maintenance worker-insulating in Office of Physical Plant.

Sara L. Leschinsky, deli worker in Housing and Food Services.

Richard McClimans, general helper-repairer in Housing and Food Services.

Larry E. Nye, linen handler at The Hershey Medical Center.

Darrell E. Peterson, photographic technician A at The Hershey Medical Center.

Dean Shirk, maintenance worker-utility-group leader in Housing and Food Services.

Michael E. Swavely, area facilities maintenance worker in Office of Physical Plant.

Michele M. Wallace, senior instrumentation processing aide at The Hershey Medical Center.

Jeff C. Watson, food preparer B in Housing and Food Services.

LECTURES

Relevance of science addressed in Erie talk

Pamela S. Botts, assistant professor of biology at Penn State Erie, The Behrend College, will address the relevance of science to everyday life in her presentation "Convincing the Non-Scientist that Science is Relevant and Accessible, or You Don't Have to be a Rocket Scientist to Understand Science."

Her lecture, which opens the Penn State-Behrend Provost's Speaker Series, will take place at noon Wednesday, Nov. 20, in the Reed Union Building Commons.

"My presentation will demonstrate how science relates personally, professionally and politically to each of our lives," Botts said. "I believe we must find a way to put science back into society and make it work for us. There isn't any part of our lives that isn't affected by science."

Botts is the winner of the 1996 Penn State-Behrend Council of Fellows Excellence in Teaching Award. In addition to classroom and laboratory

teaching, Botts maintains a number of research interests including wetland plant ecology; distribution of organisms in streams and wetlands; and a recent collaborative interest, evolutionary ecology. She also takes part in a long-term collaborative project involving landscape ecology and population biology in wetlands on the Penn State-Behrend Campus.

Botts is a graduate of Trenton State College and received her doctorate in biology from the University of South Florida. Her research has been funded by the National Science Foundation, the National Biological Survey and the Pennsylvania Academy of Sciences. She has presented numerous papers and seminars and has been published in both books and peer-reviewed journals.

Her presentation is free to the public. For more information call the Penn State-Behrend switchboard at (814) 898-6000.

University president to talk for Hispanic celebration

Dr. Norman I. Maldonado, president of the University of Puerto Rico, will speak on the University Park Campus at 8 p.m. Thursday, Nov. 21, in 112 Kern Building. His lecture is sponsored by the Multicultural Resource Center and other units, and is part of this month's Hispanic Heritage Celebration.

Appointed president in 1994, Maldonado has revitalized the 11-campus system by appointing new chancellors and deans, applying total quality management to re-engineer procurement and administrative affairs, and is currently completing a strategic plan for the university. Over the last few years, the university has improved its financial management, raised \$320 million in bonds for capital improvements, and has increased its enrollment by more than 8,000 students.

A native of Puerto Rico, Maldonado received his M.D. from the University of Puerto Rico School of Medicine and is a specialist in hematology and oncology. After service in the U.S. Army in Germany, he was director of hematology at the Uni-

versity of Puerto Rico from 1966 to 1973, and medical director of the San Juan Municipal Hospital from 1973 to 1976.

He served as deputy secretary of the Department of Health of Puerto Rico from 1977 to 1978, when he was appointed chancellor of the Medical Sciences Campus of the University of Puerto Rico. There he was responsible for expanding the academic curriculum, the accreditation of all programs and established an intramural clinical practice for medical faculty. In 1985, he returned to teaching and was coordinator of the Internal Medicine Residency Program for the university.

After retiring in 1991, he went into private practice in hematology and oncology, and in 1993 was appointed director of the Office of Research and Planning of the Senate of Puerto Rico and as adviser for health care reform. He was instrumental in forwarding the legislation that began health care reform and was liaison to the federal government during President Clinton's health reform initiative.

Marker series probes immune system, genes

Peter G. Schultz, Howard Hughes Medical Institute investigator at the University of California at Berkeley, will present the 1996 Marker Lectures in the Chemical Sciences from Nov. 18 to 20, at University Park. The three-lecture series, titled "Chemistry, The Central Science," is sponsored by the Eberly College of Science and is open to the public.

The lectures include: "Lessons from the Immune System: From Catalysis to Materials" at 8 p.m. Monday, Nov. 18, in 104 Keller Conference Center; "Probing Protein Structure and Function with an Expanded Genetic Code" at 4 p.m. Tuesday, Nov. 19, in S-5 Osmond Laboratory; and "Catalytic Antibodies" at 12:15 p.m. Wednesday, Nov. 20, in S-5 Osmond Laboratory.

Schultz has been instrumental in developing several new and vibrant areas of chemical research. His group was among the first to use antibodies as chemical reagents to effect novel transformations. In addition, he has developed a new approach to the preparation of proteins containing non-natural amino acids as probes of protein structure and function.



Peter G. Schultz

Schultz received his doctoral degree in 1984 from the California Institute of Technology, after which he did post-doctoral research at the Massachusetts Institute of Technology. He joined the faculty at the University of California at Berkeley in 1985 as an assistant professor and in 1985

was appointed principal investigator to the Lawrence Berkeley Laboratory. Schultz is a founding scientist and chairman of the Scientific Advisory Board of the Affymax Research Institute in Palo Alto, Calif. He also serves on the advisory board for CV Therapeutics in Mountain View, Calif., and is founder of Symyx Technologies in Palo Alto.

He has been honored with numerous awards, including in 1994 the Wolf Prize in Chemistry; in 1995 the California Scientist of the Year Award; and in 1996 the *Discover Magazine* Award for Technological Innovation. He was elected to the American Academy of Arts and Sciences in 1990 and to the National Academy of Sciences in 1993.

Free workshops geared to women in science, social science, engineering

The third annual "WISE Voices" free workshops for women in science, social science and engineering will be held at University Park on Sunday, Nov. 17. A brunch at 10 a.m. at the Nittany Lion Inn will begin the day's activities. The Pennsylvania Space Grant Consortium, a NASA-funded education program, and the WISE Institute are jointly sponsoring the event.

This year's workshops will focus on female graduate students in science and engineering, according to **Karen Wynn**, assistant space grant director and convener of the workshops.

"From the best research on the topic as well as anecdotal evidence, this group of women on campus are most likely to be shut out of crucial information that can make or break

an academic career," Wynn said. "Isolation in fields where there are few other women is a contributing factor."

"Success Strategies for Women Graduate Students in Science and Engineering" is again the theme, and workshops will cover topics such as "Crossing Cultures in Science and Engineering," "Voices from Women in Industry," "Negotiating an Offer" and family issues. Workshops will take place from 11 a.m. to 2 p.m. in Keller Building, followed by a dessert and coffee networking session.

The day's events are free, but pre-registration is required. To register contact Wynn at (814) 863-3608; by e-mail at kw8@psu.edu; or fax to (814) 863-8286 with name, address, e-mail, department and title.

Sigma Xi lecture planned for Nov. 18

Laksham Yapa, associate professor of geography, will continue a discussion on "What Causes Poverty: A Postmodern View" at 12:15 p.m. Monday, Nov. 18, in 110 North Henderson, The Living Center, at University Park.

Yapa will discuss the causes of scarcity and deprivation in diverse

societies worldwide and will address the question, "Has using economic development become the cause of modern poverty?" The discussion is sponsored by Sigma Xi, Penn State Chapter.

For more information contact Sigma Xi, contact **Fat Gong** at (814) 863-9963.

More Lectures

Nov. 18 presentation marks Hispanic Heritage Month

As part of Puerto Rican Awareness Week and Hispanic Heritage Month at Penn State, the Puerto Rican Association will co-sponsor a slide presentation and public lecture by Puerto Rican installation artist **Pepon Osorio** at 7 p.m. Monday, Nov. 18, in the Palmer Museum of Art on the University Park Campus.

Osorio is the only artist selected to serve as artist-in-residence for a full year by the Museo del Barrio in New York City, the primary exhibition space for Latino artists in the United States. He is known for transforming everyday objects from the lives of Puerto Ricans into works of art, and for his ability to fill public spaces with artistic meaning.

For example, in an upcoming installation in New York City, Osorio will decorate taxi cabs as vehicles for his artistic expression. In an earlier project, he and students at Rhode Island School of Design, expressed ideas about domestic violence through shoes transformed into art and arranged strategically throughout campus.

At Penn State, Osorio will conduct a similar four-day workshop with students in visual arts and ENG 404, "Mapping Identity, Difference and Place." The students have been exploring ways in which Latinos are represented and have represented themselves in the media, theatre and the visual arts.

Learn practical investment strategies Nov. 22

J. Randall Woolridge, an international financial consultant and professor of finance, will present a seminar on "Investment Strategies." The program is scheduled for 1 to 5 p.m. Friday, Nov. 22, at The Penn State Scanticon. Tuition for the program is \$50.

Woolridge, the Goldman, Sachs & Co. and Frank P. Smeal Fellow, has been quoted in several financial publications, including *Business Week*. His research focuses on issues facing an investor: spin-off investing, the impact of changes in interest and exchange rates, IPOs and value versus growth stocks.

Woolridge has published more than 25 articles in journals and has appeared on CNN's "Money Line" and CNBC's "Business Today." He is a consultant for AT&T, Lehman Brothers, Price Waterhouse and NYNEX.

To register for this seminar, call (800) 778-8632.

Talk looks at "Facing Tragedy on the Campus"

Professional Women at Penn State presents "Facing Tragedy on the Campus"

by **Sarah H. Guelldner**, director, School of Nursing, on Wednesday, Nov. 20. The brown-bag lunch meeting will begin at 12:05 p.m. in room 4 Henderson Human Development East (nursing building).

Professional Women at Penn State is a grass-roots group coordinated by University women in which participants can develop and maintain a communications network and serve as a resource for other Penn Staters.

This group welcomes attendance by both men and women in all job and student classifications at the University.

Copyright issues examined at free symposium

A special one-day symposium on copyright issues is planned for Nov. 26 at The Penn State Scanticon at University Park to address issues of intellectual property, copyright and electronic information. The event is co-sponsored by the Office of the Provost, the University Libraries and the Faculty Senate Committee on Libraries.

The symposium, expected to provide a University-wide discussion among faculty, administrators, Penn State publishers and information managers concerned with gaining access to electronic information required to meet the teaching and research needs of Penn State, will focus on changes in the copyright law. In a recently published report, the U.S. Department of Commerce proposes amendments to copyright law that will greatly affect the "fair use" access for teaching and research purposes that is now currently protected under copyright law. In addition, symposium organizers say there is increasing pressure from publishers to amend copyright statutes in a way that would likely reduce access by faculty and students to electronic information.

Some of the topics to be covered by a panel of experts during this one-day event include: "Fair Use in an Electronic Age," "Who Owns What? The Role of the Scholarly Author," and Access to Scholarship: Free or Fee? The symposium begins at 9 a.m. There is no fee for this event, however, registration is necessary.

For more information, contact **Jack Sulzer** at (814) 865-3819 or by e-mail at jhs@psu.edu.



Renovation in progress

Robert Carson, left, and Kevin Shippey work on an addition to the Penn State Federal Credit Union building on the University Park Campus. Renovations keep the building closed until noon. After noon, the workers leave and the credit union opens for business.

Photo: Greg Greco

Award

GSA wins two national awards

The Graduate Student Association (GSA) was honored at the 1996 awards dinner of the National Association of Graduate-Professional Students for three outstanding projects: Julie Ann Bubolz, GSA president, received the award on behalf of the association. Penn State received two of 12 program awards presented.

The GSA's *Guide to Graduate Life* and *Tax Guide for Graduate Students* were recognized together in the publications category. The 65-page *Guide to Graduate Life* was selected for its thorough coverage of issues of importance to graduate students.

The *Tax Guide for Graduate Students*

is a unique publication — no other graduate student association publishes a similar document.

The association received a second award for its voter registration program. Twice this fall, during graduate student registration and orientation, the group worked to register graduate students to vote.

NAGPS is the only national student organization solely representing the interests of the nation's 2.5 million graduate/professional students. A complete list of award winners, along with information about NAGPS and its services to graduate students, is available on the Web at <http://www.nagps.org/NAGPS/>

The ARTS

AT PENN STATE



"Security Zone"

Robert Yarber, associate professor of art, painted this oil on canvas work specifically for the School of Visual Arts Faculty Exhibition, "Security Zone" and works by other faculty will be on exhibit from Nov. 19 to Dec. 13 in the Zollner Gallery on the University Park Campus.

Flute and piano recital

Flutist **Jaime Pomponio** and piano accompanist **Kris Sanchack** will present a recital at 4:30 p.m. Saturday, Nov. 16, in the School of Music Recital Hall on the University Park Campus. Pomponio is a student of **Eleanor Duncan Armstrong**, associate professor of music, and is pursuing a bachelor of arts degree in performance. The concert is free to the public.

Choral works performed

At 3 p.m. Sunday, Nov. 17, 500 musicians from the College of Arts and Architecture School of Music will join to perform Carl Orff's *Carmina Burana* and Francis Poulenc's *Gloria* in Eisenhower Auditorium on the University Park Campus.

The Penn State Philharmonic will join with the Concert Choir, University Choir, Glee Club, Oriana Singers, Women's Chorus and the Park Forest Elementary School Chorus to perform the works.

Tickets are \$9 for adults; \$4 for students and are available at the Arts Ticket Center by calling (814) 863-0255 or (800) 278-7849.

Big band jazz concert

Penn State's Centre Dimensions will present a concert of big band jazz Monday, Nov. 18, in the School of Music Recital Hall on the University Park Campus.

The program will include works

arranged by School of Music faculty members **Robert Selander** and **Dan Yoder**. Featured vocalist with the group will be **Meredith Malone**. Admission is \$3 at the door.

Faculty art exhibition

The annual School of Visual Arts faculty exhibition will open on Tuesday, Nov. 19, in the Zollner Gallery in the Visual Arts Building on the University Park Campus. A reception to formally kick-off the event will be held at 7 p.m. The opening reception will feature music by the Lyon Family Chamber Players.

The exhibition will display recent works by School of Visual Arts faculty from the University Park and Commonwealth campuses, as well as works from retired faculty members.

The exhibit, which is free to the public, continues through Dec. 13.

Symphonic Wind Ensemble concert

The Penn State University Symphonic Wind Ensemble will present a free concert at 8 p.m. Wednesday, Nov. 20, in the School of Music Recital Hall on the University Park Campus. This student ensemble is conducted by **Dennis Glocke**, associate professor of music.

Patrick Jones, a doctoral student in music education and conductor of the George Mason University Symphonic Band, will conduct the *Diverimento for Brass and Percussion*.

Chamber Singers to play Bach's Lunch

The Penn State Chamber Singers, conducted by **D. Douglas Miller**, professor of music, will perform at the Bach's Lunch concert at 12:10 p.m. on Thursday, Nov. 21, in the Helen Eakin Eisenhower Chapel on the University Park Campus. The 20-minute free concert is part of the Bach's Lunch series sponsored by the School of Music and the University Lutheran Parish.

The Chamber Singers are an ensemble of 15 singers selected from the 54-voice concert choir directed by Miller.

Audience members may take a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Holiday ornaments exhibition and sale

The Sixth Annual Holiday Ornaments Exhibition and Sale will be held at the Palmer Museum of Art on the University Park Campus from 10 a.m. to 4:30 p.m. Saturday, Nov. 23, and from noon to 4 p.m. Sunday, Nov. 24.

Distinctive ornaments, crafted by artists from around the country, will be on display and available for sale. This year's commemorative ornament, made of hand-cut pewter, is by **G. Adeline Laughlin** of Manchester, Conn.

The exhibition sponsored by the Friends of the Palmer Museum, is free to the public. All proceeds go to the Friends of the Palmer Museum.

Research exhibition

The College of Arts and Architecture's Faculty Research and Creative Accomplishment Exhibition is on display through Nov. 30 in the Kern Building Commons on the University Park Campus.

The exhibition represents selected examples of the challenges arts and architecture faculty encounter in their research and creative work, and explains how research, experimentation and creative thought lead to answers and solutions.

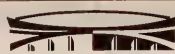
Faculty members included in this year's exhibition are: **Patrick Trimble**, instructor in integrative arts; **Robert E. Leonard**, professor of theatre arts; **Daniel Robinson**, assistant professor of theatre arts; and **B. Lord**, assistant professor of art history.

Under the direction of **Edward Williams**, associate dean, the exhibition was produced by The College of Arts and Architecture's new Communications/Public Relations Office.

Odyssey Through Literature

On the next episode of *Odyssey Through Literature* **George Boornstein** of the University of Michigan speaks with host **Leonard Rubinstein** about his discovery and publication of 38 early poems of the Irish poet **W. B. Yeats**.

Odyssey Through Literature is produced by the Department of Comparative Literature. It airs on Sundays at 6:30 p.m. on WPSU-91.5 FM.



BRYCE JORDAN CENTER

Stone Temple Pilots

Southern California's hard-edged rock band Stone Temple Pilots, with special guest **Local H**, will appear at The Bryce Jordan Center at 7:30 p.m. Wednesday, Dec. 4. Tickets are \$25 for reserved seating.

Stone Temple Pilots received a 1995 Video Music Award for Best Hard Rock Video and both of the group's full-length releases, *Purple and Core*, have gone triple-platinum. The group also was voted Best New Band of 1994 by the Readers of *Rolling Stone*.

Kenny Rogers

The legendary Kenny Rogers will celebrate the Christmas season at The Bryce Jordan Center at 7:30 p.m. Tuesday, Dec. 3. Tickets for "The Gift, A Christmas Concert" starring Kenny Rogers, are \$26.50 for reserved seating. The "Christmas Carol Foundation," a non-profit agency that helps needy families over the holidays, will receive \$1 from each ticket sold.

As one of music's biggest crossover successes, Rogers has received three Grammys, 11 People's Choice Awards and eight Academy of Country Music Awards. His career started with the First Edition and the New Christy Minstrels and he later became a star with hits of "Reuben James" and "Ruby, Don't Take Your Love to Town." He went solo in 1976.

Farewell performance

The original rock musical "Jesus Christ Superstar," with original motion picture star **Ted Neeley**, will appear at The Bryce Jordan Center at 7:30 p.m. Sunday, Dec. 1. Tickets are \$29.50, \$24.50 and \$19.50 for reserved seating.

Based upon the last seven days in the life of Jesus of Nazareth, "Jesus Christ Superstar" was created as a rock opera in the U.S. and Britain.

Upcoming events

■ **Nov. 15:** World Gold Gymnastics Tour; 7:30 p.m.; tickets \$35, \$25 and \$17.50 for adults; children (12 and under) and senior citizens (60 and over) receive a \$3 discount.

■ **Nov. 23:** Penn State Tailgate Party; four hours before kickoff; tickets \$15 for adults; \$10 for children 12 and under.

For a listing of sporting events to be held at The Bryce Jordan Center, or for more information on any event, call the center at (814) 865-5555 or visit the Web site at <http://www.bjc.psu.edu/>.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, November 15

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk, Sarah Andrews on "Portraiture in American Art." School of Music, 4:30 p.m., Recital Hall. Flute and piano recital by Jamie Pomponio and Kris Sanchack.

■ Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "Nellie et Monsieur Arnaud," through Nov. 16.

Saturday, November 16

School of Music, 8 p.m., Recital Hall. Piano recital by Steve Grazzini.

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Czech Philharmonic Orchestra." For tickets, call (814) 863-0255.

Sunday, November 17

School of Music, 3 p.m., Eisenhower Auditorium. Combined School of Music Choirs and Philharmonic Orchestra. For tickets, call (814) 863-0255.

■ Max Kade German-American Research Institute, 3:50 p.m. at 304 Burrows Building. Open House with Sara Biele and Martyrs' Mirror on display, continuous showing of videos on history and heritage of German immigration; 4-4:30 slide presentation by Director of Institute on JFK's book "A Nation of Immigrants: The Germans." Refreshments.

Monday, November 18

School of Music, 8 p.m., Recital Hall. "Centre Dimensions University Jazz Ensemble." Dan Yoder, director. For tickets, call (814) 863-0431.

Wednesday, November 20

School of Music, 8 p.m., Recital Hall. "Penn State Symphonic Wind Ensemble." Dennis Glocke, conductor.

Thursday, November 21

School of Music, 12:10-12:30 p.m., Eisenhower Chapel. Bach's Lunch Concert presents "The Penn State Chamber Singers."

■ Palmer Museum of Art, 6:30 p.m., Lipson Auditorium. Hille presents the film "Atalia" scheduled for the Performing Arts, 8 p.m., Schwab Auditorium. "Amernet String with St. Lawrence String Quartet." For tickets, call (814) 863-0255.

Friday, November 22

Palmer Museum of Art, 3 p.m., Christoffers Lobby. Gallery Talk, Catherine Cleri on "Ancient to Renaissance Art at the Palmer Museum."

Graduate Student Association, 6:30 and 8:30 p.m., 112 Kern. Film, "Girl Six," through Nov. 23.

■ Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "L'America," through Nov. 23.

School of Music, 8 p.m., Eisenhower Auditorium. "Bandoma" with O. Richard Bundy and Dennis Glocke, conductors. For tickets, call (814) 863-0255.

Saturday, November 23

Friends of the Palmer Museum, 10 a.m. to 4:30 p.m., Palmer Museum. Ornament exhibition and sale, through Nov. 24.

Sunday, November 24

School of Music, 2 p.m., Recital Hall. "Singing Lions." Peter Kleier, director. For tickets, call (814) 865-0431.

School of Music, 8 p.m., Recital Hall. "Essence of Joy." Anthony Leach, conductor. For tickets, call (814) 865-0431.



Coming soon

Fans staled in line at the Bryce Jordan Center on the University Park Campus Saturday morning, Nov. 10, for the opportunity to buy tickets to see Wayne State Pilots. The group will be in concert at The Jordan Center on Dec. 4.

Photo: Andrea Hurley

SEMINARS

Friday, November 15

Pennsylvania Space Grant Consortium and WISE Institute, 10 a.m., Nittany Lion Inn. Karen Wynn on "Success Strategies for Women Graduate Students in Science and Engineering."

Undergraduate Studies, 12-1 p.m., 305 Hetzel Union Building. Robert Pangborn on "Advising for 'The Penn State Education': A New View of General Education." Geography, 4 p.m., 226 Walker. David Rain on "The Eaters of the Dry Season: A Geographical Portrait."

Philosophy, 4 p.m., 124 Sparks. Rebecca Comay, author; Karen Iyer, Peter Goff and Maria Talero, panelists, and Greg Recco, moderator, discuss the work of Walter Benjamin.

Monday, November 18

Economics, 10:30 a.m., 420 Kern. Robert C. Marshall on "Pattern Bargaining." Sigma Xi, 12:15 p.m., 110 North Henderson.

Lakshya Vaid on "What Causes Poverty: A Postmodern View."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Dennis Bullington on "Report on ASAE's Workshop on 'Developing Senior-Level Biological Engineering Courses' and Matt Newton on "Calibrating Three Sediment Delivery Functions for Different Physiographic Regions in Pennsylvania."

Gravity Center, 2 p.m., 339 Davey Lab. Pablo Laguna on "Density of Kinks after a Quench: When Symmetry Breaks. How Big are the Pieces?"

■ Italian, 3:30 p.m., 102 Weaver. Santa Casciani on "Ruzante: A Dissenting Voice in the Italian Renaissance."

■ Puerto Rican Association, 7 p.m., Palmer Museum of Art. Peopon Osorio will lecture a side presentation and lecture.

Center for Women Students and Parahelene Council, 7-8:30 p.m., HUB Ballroom. "Mock Acquaintance Rape Trial," through Nov. 22.

English, Institute for the Arts and Humanistic Studies, Research and Graduate Studies Office of the College of the Liberal Arts and the Mary Rolling Fund, 7:30 p.m., Hetzel Union Building Gallery Lounge. Rita Cretz with a reading from her book, *Blue Italian*.

Tuesday, November 19

■ African and African American Studies, noon-1:30 p.m. Francesca Dellich on "Matrilineality in East African Societies."

Physics, 3:30 p.m., 339 Davey Lab. Tom Phillips on "Measuring the Gravitational Acceleration of Antimatter with an Antihydrogen Interferometer."

Geosciences, 4 p.m., 112 Walker. Norman Smith on a subject to be announced.

Nutrition, 4 p.m., 110 Warik Lab. Marc Levin on "Insights into the Molecular Basis of Small Intestinal Adaptation and its Modulation by Retinoids."

Biology, 4 p.m., 8 Mueller Lab. Jill Denmark on "Regulation of Gene Expression by Ethylene During Tomato Fruit Ripening."

8 p.m., Schwab Auditorium. Olympia Dukakis will speak about women's issues.

Wednesday, November 20

Agriculture, noon, 109 Walker. Herbert Cole on "Sustainable Agriculture in Pennsylvania: The Sanrue Initiative."

■ Center for Russian and East European Languages, noon, 124 Sparks. Bogdan Stefanescu on "The Irony Behind Romania's Identity: Metaphors of Insecurity in a Besieged Culture."

Professional Women, 12:05 p.m., 4 Henderson Human Development East. Sara H. Guldner on "Facing Tragedy on the Campus."

Engineering Mechanics, 3:35-5:30 p.m., 214 Hammond. Francesco Costanzo on "Homogenization."

Thursday, November 21

Ceramics, 11 a.m., 301 Steidle. Jan Fouzel on "Unsolved Problems in Domain Structures."

American Studies, 3 p.m., 102 Weaver. Kake Uchi on "Writing the 'Em-space' of American Modernism: Female Popular Modernity and Cultural Dialogue in the 1920s."

Physics, 3:30 p.m., 101 Osmond Lab. James Cronin on "The Highest Energy Cosmic Rays."

Ecology, 3:45 p.m., 106 Boucke. Don Cipoloni on "Enhanced Resistance to Pests Induced by Mechanical Stimulation in Plants: Ecological Consequences of a Generalized Stress Response."

Food Science, 4 p.m., 117 Borland Lab. Hassan Gourama on "Emerging Issues in Food Microbiology."

Institute for Policy Research and Evaluation, Center for Health Policy Research, Department of Health Policy and Administration, 4:50-5:30 p.m., 102 East Henderson. Richard White on "Data and Decisions in Health Care: Is Outcomes Research Useful?"

■ Multicultural Resource Center, 8 p.m., 112 Kern. Dr. Norman I. Maldonado to speak on subject to be announced.

Friday, November 22

Faculty Staff Club, 11:30 a.m., The Nittany Lion Inn. John J. Curley on "The Role of the Press in the New Media Explosion." For tickets, call (814) 865-7500.

■ Economics, 3:30 p.m., 420 Kern. Giovanni Maggi on "The Value of Trade Agreements in the Presence of Political Pressures."

Geography, 4 p.m., 206 Walker. Gordon DeJong on "Motives for Migration: New Perspectives."

Monday, November 25

■ Comparative Literature, 12:15, 101 Kern. Philip Jenkins on "Fascist Writings Among Italians in Pennsylvania."

CONFERENCES

Wednesday, November 20

Pennsylvania School Boards Association Technology Conference, The Penn State Scenic, through Nov. 22.

EXHIBITS

The HUB Art Alley

Drawings by Christine Meyers, through Nov. 17.

Ceramics and stained glass by Shahnaz Lotfi, through Nov. 17.

The Hub Browning Gallery

Paintings by George Diaz, watercolors by Sofia Austin, paintings by Ramon Borges, paintings by Miriam Urguidi and photography by Willy Zayas. All exhibits will be open through Dec. 8.

The HUB Formal Gallery

Photography by Ed Leos, through Dec. 7.

Kern Exhibition Area

Doll exhibit by Janet Robinson, through Nov. 17.

Coin art and jewelry by Claire Allison Rutser, through Nov. 17.

Photography by Minday Hans, through Nov. 17.

Palmer Museum

■ "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5.

Zoller Gallery

"School of Visual Arts Faculty Exhibition," through Dec. 13.

■ Reflects an international perspective.

"A Christmas Carol"

Tony Lentz will continue a 17-year Penn State tradition with his reading of Charles Dickens' "A Christmas Carol" on two dates this December on the University Park Campus. The first two-hour performance will be at 8 p.m. Thursday, Dec. 5, in the Nittany Lion Inn's Alumni/Fireside Lounge. The second will be at 8 p.m. Saturday, Dec. 14, in 101 Kern Building. Refreshments will be available at both presentations.

"Gershwin on Ice"

"Gershwin on Ice," the first ice show ever to be performed on the Eisenhower Auditorium stage, will feature Olympic silver medalist **Linda Fratianne** and world champion **Karen Cadavy** in its 8 p.m. Saturday, Jan. 24, performance on the University Park Campus. **Peggy Fleming**, originally scheduled in the performance, will not appear in the show due to schedule conflicts.

In addition to Fratianna and Cadavy, 12 other skaters are scheduled to perform, including other medalists and world champions. The performance is sponsored by the Center for the Performing Arts.

For tickets or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Faculty/Staff Alerts

Ask the president

Are intercollegiate sports part of the educational mission of American colleges and universities or is their main purpose commercial entertainment? Do its players see college as a way to a degree or a pathway to the pros? Does a winning team benefit the entire University or just the athletic department? Just what is the role of intercollegiate sports in the life of a university?

President **Graham B. Spanier** will address this issue and take questions from callers on the next edition of "To The Best Of My Knowledge," at 7 tonight, on radio station **WPSU-FM**, 90.1, 91.5 and 106.7. Listeners can call in to (800) 543-8242 during the one-hour program, hosted by **Patty Satalia**.

Holiday hours

The Penn State Information and Directory Assistance Office will be closed for the Thanksgiving holiday. It will resume normal hours of 7:30 a.m. to 11 p.m. Friday, Nov. 29. If you have any questions, please call (814) 865-6881.

Tax reminder

All non-resident aliens claiming exemption from federal tax, based on a tax treaty, need to complete IRS Form 8233 each tax year. A copy of the I-20 or IAP-66 (whichever is applicable), plus a copy of the Revenue Procedure 87-9 (for lecturers, researchers or teachers) or Revenue Procedure 87-8 (for students, trainees or grad assistants) both need to be attached to the IRS Form 8233.

The forms can be obtained from either the Payroll Office, 307 Rider Building, or the Office of International Students, 222 Boucke Building. Forms are also directly available from the IRS's Web page at http://www.irs.ustreas.gov/olainforms_nubs/index.html

These forms must be completed and received by the Payroll Office, 307 Rider Building, by Dec 2. Failure to do so may cause you to be taxed incorrectly during the 1997 tax year.

For more information, contact the Payroll Office at payroll@psu.edu or (814) 865-7621.



For the children

Catherine Guzman, 4, and her mother, Christina Maldonado, keep a safe distance from some large feathered friends visiting the Paul Robeson Cultural Center on the University Park Campus Sunday, Nov. 10. The birds were one of many attractions guaranteed to entertain children and adults alike at the Hispanic/Latino Festival for Children. Participants could also meet a snake, have their faces painted and visit a table dedicated to arts and crafts. The event was part of this month's Hispanic Heritage Celebration.

Photo: Andrea Hurley

HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. To see a description of the courses, log-in to the Web site at <http://www.ohr.psu.edu/> and click on the button for HRDC. Registration for fee-based courses requires a completed registration form on page 67 of the HRDC course catalog.

Managing Your Career: Making Your Decisions Count

Meets from 8:30-11:45 a.m. Wednesday, Dec. 4, in 319 Rider Building. Cost: \$35.

Program/Project Management

Provides the knowledge and tools necessary to successfully manage complex technical projects. Emphasizes allocating and managing personnel, financial resources and time. Meets from 9 a.m.-4 p.m., Friday, Dec. 6, in 319 Rider Building. Cost: \$70.

Understanding Yourself & Others Using the Disc Dimensions of Behavior Model

By completing the Disc Personal Profile System, participants will be able to describe their individual work styles, appreciate others behavioral styles and maximize the potential for effective working relationships. Meets from 9 a.m. to 4 p.m. Tuesday, Dec. 10, in 319 Rider Building. Cost: \$67.

Creativity Unleashed: The Ultimate Tool

Methods explored in this new program have been used by companies such as Disney, AT&T and Proctor & Gamble. Meets for two sessions on Wednesday and Friday, Dec. 11 and 13, from 1:30-4:30 p.m. in 118 Agricultural Science and Industries Building. Cost: \$60.

Motivating and Empowering Employees for Success

Meets from 12:15-4:45 p.m. Monday, Dec. 18, in 319 Rider Building. Cost:\$35.

International Internet site

The University Office of International Programs announces the creation of an internationally focused Internet site, INTFUND, specifically designed to aid faculty in identifying international funding and networking opportunities. Individuals interested in or currently involved with international education and global issues are encouraged to take advantage of this regularly updated, internationally focused Penn State site.

On a daily basis, the Office of International Cooperative Programs monitors national electronic information bulletin boards including Commerce Business Daily, Federal Register, NIH and Office of Federal Programs and transfers any pertinent international opportunities to INTFUND in an abbreviated format. Conferences, workshops and exhibits with an international focus or theme are also posted.

Additionally, the office encourages individuals interested in posting internationally pertinent opportunities to INTFUND to submit the announcement via e-mail to **Tannaz Rahman**, director, Office of International Cooperative Programs, at tzr1@psu.edu. The announcement should be international in nature, include a brief summary of the opportunity or announcement, any applicable deadline and a contact name and telephone number, fax number or e-mail address.

Access to the Web site, INTFUND, may be gained through Penn State's home page <http://www.psu.edu/>. From there, click on the heading "Academics and Research," then click on the heading "Research." Next, under the heading "Other National Associations, Organizations, Institutes, Centers and Other Information," click on "Faculty Funding and Networking Opportunities." From here, you may select a particular geographic area or click on "All" to view the entire listing.

For more information, contact Rahman in 222 Boucke Building at (814) 865-0414, fax (814) 865-3336 or e-mail tzrl1@psu.edu, or visit the Web site at <http://blue.ue.psu.edu/psu/ip/oicp/Home.html>.

News in Brief

Seeing stars

The Penn State Astronomy Club will conduct its next public Astronomy Open House from 8 to 11 p.m. Friday, Nov. 15, on the roof of Davey Lab on the University Park Campus. (In the event of cloudy skies, observations will be attempted on Saturday evening.)

Featured objects for the evening will include the waning crescent moon and the planet Saturn. Other celestial objects may also be shown, depending on sky conditions. A planetarium show will be held in 541 Davey Lab. The next event will be Dec. 6. The open houses are free and everyone is welcome to join the Astronomy Club for a relaxing evening under the stars.

Health Promotion

The following sessions are being offered by the office of Faculty/Staff Health Promotion:

Enlightening Lunch — Healthful Holidays

Learn ways to incorporate lower-fat food preparation and eating practices into your plans for holiday meals and entertaining. Meets from noon to 1 p.m. Thursday, Nov. 21, in 110 Henderson Building (The Living Center). No cost. To register, contact Jan Hawbaker at 865-3085 or jqh3@psu.edu.

Free Blood Pressure Screenings

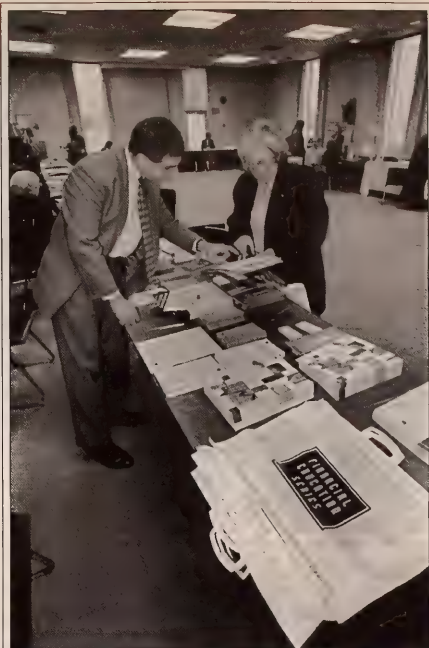
Free blood pressure screenings will be available at the Benefits Open House on Friday Nov. 22, from 8 a.m. to 4 p.m. in 101 Kern Building.

Open parking

As in the past, Friday, Nov. 29, (the day after Thanksgiving) will be considered open parking. Any faculty/staff and student permits will be honored to park in any legal parking spaces as long as they display a valid parking permit. "No Parking" areas as well as handicapped, reserved and metered spaces will be enforced.

Meats lab sales

The Penn State Meats Lab will have meat sales each Friday through Dec. 13. Sale hours are from 1:30 to 4 p.m. There is usually a selection of beef, pork and lamb cuts, as well as specialty items such as summer sausage, sausage, hot sausage, scrapple, cured ham and bacon. The Meats Lab is located directly across Fox Hollow Road from Beaver Stadium. For more information, call the lab at (814) 865-1787.



Open house

Peter Ippolito, consulting officer for TIAA-CREF, goes over some information with Marie Draguns, whose husband is employed at the University. Draguns attended a benefits open house Nov. 6 on the University Park Campus. The next open house is scheduled for 8 a.m. to 4:30 p.m. Friday, Nov. 22, in 101 Kern Building.

Photo: Greg Grieco

EMPLOYEE BENEFITS

A regular column provided by the Office of Human Resources

HealthAmerica Provider Directory update

Most of you should have received a "Time to Choose" packet for the 1997 switch enrollment period which began Nov. 4. A HealthAmerica Provider Directory of participating HMO and PPO providers was included in that packet. Changes have been made since the printing of that directory so HealthAmerica has prepared a "Provider Directory Update" which may be helpful to you in choosing the best plan for you and your family. These updates pertain to the HealthAmerica Central Pennsylvania Directory and may be obtained in any of the following ways:

- The provider directory changes are reflected on the Internet effective Nov. 11. You can access this site at www.ohr.psu.edu/benefits/directory.htm.
- Printed copies of the update will be available at the scheduled Benefits Open Houses.
- Human Resources representatives and directors of Business Services will maintain a supply of copies of the update.
- You may call HealthAmerica at (814) 231-8970 (University Park), or at (800) 366-6433, and an update will be sent to you.

Harrisburg and Dickinson School of Law join forces to offer cooperative degrees

The Dickinson School of Law and Penn State Harrisburg will create a program for a cooperative degree in law and public administration. The two schools will begin admitting degree candidates for the 1997-98 academic year.

"This program will permit students to earn a law degree from The Dickinson School of Law and a master's degree in public administration from Penn State Harrisburg in less time and at a lower cost than would be possible otherwise," said Dickinson Dean Peter C. Glenn. "It will be extremely useful for students who are pursuing careers for which both degrees are helpful."

According to officials, public administration graduates most often work in government positions that require some knowledge of the law.

To be admitted to the JD/MPA degree program, students must first be admitted to The Dickinson School of Law under its regular admission procedures. Dickinson will forward to Penn State Harrisburg applications of

students who are interested in and qualified for the program. Penn State Harrisburg will then make independent admissions decisions regarding these candidates. Some candidates will likely apply to and be admitted to both schools before their enrollment at Dickinson.

Under an agreement approved by officials at both schools, students will be required to complete the first year of the JD program at Dickinson before beginning the MPA program at Penn State Harrisburg.

A maximum of nine credits toward law school course work may be transferred for credit toward the MPA degree at Penn State Harrisburg and vice versa. Students in the program may complete six credits of relevant Law School clinic work in lieu of the field placement required for the MPA degree. All students in the program will have two advisers, one from Dickinson and one from Penn State Harrisburg.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Re-engineering information systems

University Registrar James Wager, in a forthcoming edition of *Quality in Higher Education*, describes Penn State's "Comprehensive Academic Advising Information System," or CAAS (rhymes with jazz). In the past, advisers didn't have access to the administrative computing system and students could only request information from the Registrar's Office during business hours on weekdays.

CAAS, developed by a CQI team led by Gary Hile, has dramatically re-engineered the way the Registrar's Office now does business. Students can access information about their academic history, financial records, accounts payable, grades, transcripts and the status of loan applications. One drawback of the system, its relative limited availability, will be solved when access to CAAS will be deployed through the World Wide Web. In January 1997, the number of Web access sites will increase from 350 to approximately 70,000 workstations, which represents the entire student population. CAAS team members are Russ Brode, Jim Kelly, Alan Kepler, Michael Leonard, Jim Levin, Steve Littell, Scott Smith, Sue Winick, Anne Mycek-Memoli and Chris Brown.

New Web site features career programs

This fall, programs provided by Career Development and Placement Services are described on a Web site, thanks to the efforts of a CQI team sponsored by Jack Rayman, director of CDPS, and led by Ellen Houser, counselor. The team's goal was to provide a comprehensive informational summary of CDPS programs that would educate their customers about the process of career development. The site has been quite successful, with more than 10,000 "hits" received on a recent day. Team members are Phil Bucher, Cathy Dufour, Jim Ellis, Alex Kim, Christy Schiano and Diane Weller.

For more information please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, (814) 863-8721 or les1@psu.edu.



Traditional dance

The Harvest Dance, a Diwali tradition, was performed during the Diwali Festival of Lights Saturday, Nov. 9] at the HUB Ballroom on the University Park Campus. The dance illustrates various steps involved in separating husk from grain using the traditional tool "supda" used by women farmers. Nearly 500 guests enjoyed this and other dances, and a traditional Indian dinner. The event was sponsored by the Indian Students Association.

Photo: Andrea Hurley

Penn Staters

Larry Burton, professor and head of the department of electrical engineering, College of Engineering, was elected to the board of directors and as secretary/treasurer of the National Electrical Engineering Department Head's Association (NEEDHA) for 1996-97. He will assume the office of vice president of NEEDHA during 1997-98 and will become president during 1998-99.

Travis DeCastro, assistant professor of theatre arts and production manager for the University Resident Theatre Company and Pennsylvania Centre Stage, was a stage manager for "Broadway on Broadway" in New York City. The production featured Chita Rivera, Julie Andrews, Sarah Jessica Parker, Rosemary Harris and many other Broadway celebrities.

Helen Guthrie, professor emerita of nutrition in the College of Health and Human Development, was an invited speaker recently at an international food security symposium. The event, held in conjunction with the 10th anniversary of The World Food Prize, addressed "Food Security: New Solutions for the 21st Century."

Michael A. Haughton, a visiting research associate in The Smeal College's Department of Business Logistics, was the recipient of an Outstanding Paper Award at the 1996 Conference of the Western Decision Sciences Institute. His work was titled "Estimating Transport Distances Under Conditions of Unequal Delivery Quantities Across Customers."

Penny M. Kris-Etherton, professor of nutrition in the College of Health and Human Development, will serve as a member of the Nutrition Study Section, Division of Research Grants of the National Institutes of Health. Her membership term runs until June 30, 2000. As a member, Kris-Etherton will contribute to the national biomedical research effort with other study section members. She will review grant applications submitted to the NIH, make recommendations on these applications to the appropriate NIH national advisory council or board, and survey the status of research in the specified field of science.

Lawrence Muller, professor of dairy science, presented three seminars on dairy science in Northern Ireland and Ireland as part of a USDA exchange with Irish scientists.

Muller gave two seminars at a research center in Hillsborough, Northern Ireland, and presented another seminar at Moorepark in Fermoy, Ireland.

William Sharpe, professor of forest hydrology, has been named the Chesapeake Bay Advisory Committee.

Spiro Stefanou, professor of agricultural economics, has been appointed editor of the *American Journal of Agricultural Economics*, the journal of the American Agricultural Economics Association. Stefanou has been an associate editor since 1991 and will serve a three-year term as editor.

Joan Thomson, associate professor of rural sociology, will serve on a Pennsylvania Department of Education task force that is writing standards for home economics for grades K through 12.

The musical group "Simple Gifts," has released a new recording titled "Other Places, Other Times" featuring the works of several artists, including Smith Toulson, professor of music, Linda Littleton, senior research programmer, Celia Wyckoff, instructional publications designer, and Rachel Hall, graduate student in mathematics. It is the fourth release by the State College-based group, which plays traditional folk music from around the world plus original compositions.

James L. West III, distinguished professor of English and a Fellow in the Institute for the Arts and Humanistic Studies, was the invited speaker at the F. Scott and Zelda Fitzgerald Festival in Alabama, the Fitzgerald Centennial Celebration at Princeton University and the inaugural exhibition of F. Scott Fitzgerald's manuscripts and papers at Princeton. His address was titled "F. Scott Fitzgerald's (Posthumous) Career."

Donna S. Queeney, director of research and external relations for Continuing and Distance Education and affiliate associate professor of education, was the keynote speaker for the Invitational Interprofessional Workshop on Competence Assurance sponsored by the Saskatchewan Registered Nurses' Association, Canada. Her address was in two parts: "The What and Why of Competence Assurance" and "The How of Competence Assurance."

Research

 Intercom 11
 November 14, 1996

Study shows birds, mammals lived alongside the dinosaurs

A large gene study suggests that modern orders of birds and mammals evolved when the continents were separating 100 million years ago — much earlier than previous estimates based on fossil studies, which link the evolutionary event to mass extinctions 65 million years ago.

"We have substantial evidence that these modern groups of animals originated well before the extinction of the dinosaurs," Blair Hedges, assistant professor of biology, said.

In the largest genetic study of its kind, the researchers analyzed 79 genes from species representing six orders of mammals and seven orders of birds. Those species included primarily human, mouse, cow, chicken, pigeon, duck and ostrich.

"We analyzed a large amount of data — all the relevant information for these species now available in the world's genetic databases," Hedges said. "The widespread use of genetic model organisms for medical research is the reason why so many gene sequences are available."

By comparing individual genes in pairs of species, the researchers found that about half the genes in their study had accumulated mutations at a fairly constant rate relative to one another during their evolution, so they could use each mutation as a "tick" in a kind of molecular clock. The scientists calibrated their molecular clock to an evolutionary



Blair Hedges, assistant professor of biology, examines a chart of DNA sequences. Hedges and other researchers compared gene mutations to determine how long ago various species originated.

Photo: Greg Grieco

event well established by fossil studies. "A clock isn't any good unless it is calibrated to a time that everyone else agrees on," Hedges said, "and just about everyone agrees that the reptilian ancestors of birds and mammals appeared about 310 million years ago." Using this date as a secure calibration point — and the mutation rate for each of the constant-rate genes as a timing device — the researchers were able to determine how long ago each order originated.

"After averaging the time estimates for all the constant-rate genes, we traced back the origin of the orders to about 100 million years ago," Hedges

said. Most previous studies of this type involved only one or just a few genes, he said, and lack the statistical power and accuracy of this study.

"These results are unexpected," Hedges said, "because very few fossils resembling modern orders of birds and mammals have been found in rocks dating before 65 million years ago and paleontologists are in dispute over whether some of these specimens are of modern or ancient orders." The researchers speculate that these animals might not have been very abundant before 65 million years ago because the dinosaurs were so dominant then. "If there were not very many of

them, we might not even find the small proportion that became fossilized," Hedges said. "Our research is showing that the fossil record of the orders of mammals and birds apparently is very biased."

Hedges said scientists might someday be able to better determine when each order originated and on which continent it arose if they had gene sequences for more orders of mammals and birds plus more fossil discoveries.

In addition to Hedges, the research team includes Patrick H. Parker and Sudhir Kumar, graduate students in biology, and Charles G. Sibley, Yale University professor emeritus of biology.

Erie researcher earns NSF grant to study comets

Students at Penn State Erie, The Behrend College, are seeing stars — and comets, and planets — following the recent announce-

ment that a faculty member has been awarded a National Science Foundation grant of more than a quarter of a million dollars.

Maria Womack, assistant professor of physics and astronomy, received a grant of \$257,094 from NSF's Faculty Early Career Development Program to fund the proposal "Carbon Monoxide in Comets."



Maria Womack

Comets, said Womack, provide a unique opportunity to study the creation of the solar system. Comets are made from the same gases and grains from which the solar system formed, but have spent billions of years in the deep freeze of outer space.

Using the National Radio Astronomy Observatory at Kitt Peak, Ariz., Womack and her students will identify and measure the amounts of carbon monoxide, formaldehyde, hydrogen cyanide and methanol, or rubbing alcohol, emitted by several comets, including Comet Hale-Bopp, an extremely bright celestial visitor that will be seen as a naked-eye object through much of the winter and spring.

Womack's student researchers, or "comet watchers," as she calls them, will also conduct simultaneous optical observations and electronic CCD camera recordings of Comet Hale-Bopp using a new computer-driven, 16-inch telescope to be purchased with grant funds. Images of the comet will be made from the telescope to monitor the comet's brightness as it approaches and recedes from the sun.

Optical observations are important in that they offer explanations for unusual gas concentration readings recorded by the radiotelescope, and may detect outbursts or jets from the comet, Womack said.

Spanish is most common non-English language in Pa.

Spanish replaced Italian as the leading non-English language spoken at home in Pennsylvania in 1990, according to the Pennsylvania State Data Center at Penn State Harrisburg.

Drawing from 1990 U.S. Census figures, 2.4 percent of all households in the Commonwealth are Spanish speaking, the Data Center reports. Spanish was reported as the main second language by 213,096 Pennsylvanians (1.9 percent of the population) in 1990. This is a 59 percent

increase from the 1980 figure. Italian ranks second in Pennsylvania among non-English languages with 103,844 residents (0.9 percent) speaking it at home. In 1990, Italy was still the most frequently reported country of origin for foreign-born people in the Commonwealth.

In 1990, 7.3 percent of Pennsylvanians reported speaking a language other than English at home, an increase from 6.9 percent in 1980. The national average is 13.8 percent, plac-

ing Pennsylvania 24th (tied with Oregon) among the states for percentage speaking another language at home. New Mexico ranks first with 35.5 percent and Kentucky is last with 2.5 percent.

The state-sponsored Pennsylvania State Data Center is the Commonwealth's official source of population and economic statistics and services. It is based at Penn State Harrisburg's Institute of State and Regional Affairs.

WEB BROWSER

By DOUG STANFIELD
technology editor

International sites on the Penn State Web

Since 1982 the Penn State Australia-New Zealand Studies Center has been the leading North American institute dealing with the Southwest Pacific. During the last year the center has moved onto the World Wide Web and distributes electronic information about Australia, New Zealand and Oceania. Penn State is the "home" of the majority of major international Web sites related to the region.

The center's site (<http://www.psu.edu/research/ancz>) offers extensive information about the center and local activities. The official W3C World Wide Web virtual libraries for Australia (<http://www.psu.edu/research/ancz/austr.html>) and for New Zealand (<http://www.psu.edu/research/ancz/arean/nz.html>) are maintained at Penn State, as is the site for the Australian Studies Association of North America (<http://www.psu.edu/research/asana>). Numerous other "home" sites for centers and associations in the United States and Europe are also maintained at Penn State.

These sites are listed as major resources in more than 20 countries and receive hundreds of "visits" each day. Readers are invited to visit these sites and offer comments to **Frank Poyas** at e-mail fbp1@psu.edu.

Education site

Another site maintained at the University is one supporting the Pennsylvania Department of Education. The page has too much information to summarize here, except to say that it spans topics like "educational initiatives," elementary and secondary issues, post secondary and adult education, and includes links to other educational resources throughout the Commonwealth. URL: <http://www.cas.psu.edu/pde.html>

Server status page

So, you haven't received an e-mail message in what, five minutes, and panic has set in? You can quickly check the status of the several University-wide servers at <http://rip.saw.cas.psu.edu/statpage/statshml>.

If you see nothing but green lights there, at least you know where the problem isn't...



Transplant time

Office of Physical Plant employee Chuck Wedler was busy harvesting trees from the Department of Forestry for transplanting on the University Park Campus. The project is part of the \$100,000 initiative to replace trees damaged by the heavy snowfall last November.

Photo: Greg Grieco

PENNSTATE INTERCOM

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Obituaries

Nationally known sociologist was 93

Jessie Bernard, professor emerita of sociology and nationally known sociologist and authority on women and the family, died Oct. 6. She was 93.

Bernard, who served 18 years on the faculty, had earlier served as professor of sociology at Lindenwood College for Women in St. Charles, Mo. Earlier, she was a statistical analyst for the Bureau of Labor Standards and a research investigator for the Railroad Retirement Board.

She was a graduate of the University of Minnesota, where she also received her master of arts degree. Her doctor of philosophy degree was conferred by Washington University.

Bernard, who retired in 1964, was the author of numerous books on family, community and feminism that established her as a premiere scholar of the women's movement. After her retirement, she turned out several works, among them *The Sex Game*, *The Female World* and *The Future of Motherhood*. She was a central figure in the feminist movement, studying subtle forms of sex discrimination as scholar in residence for the U.S. Commission on Civil Rights. She was a founding board member for the Center for Women in Policy Studies.

Former ORL employee, stadium usher was 69

Lawrence "Larry" Patrick Reilly, 69, died Oct. 9 at his home. He was employed at the Ordnance Research Laboratory (now the Applied Research Laboratory) in 1948. In 1952, he joined Haller, Raymond and Brown Inc. as publication manager until 1969, and was with Locus Inc. of Boalsburg for 10 years until his retirement.

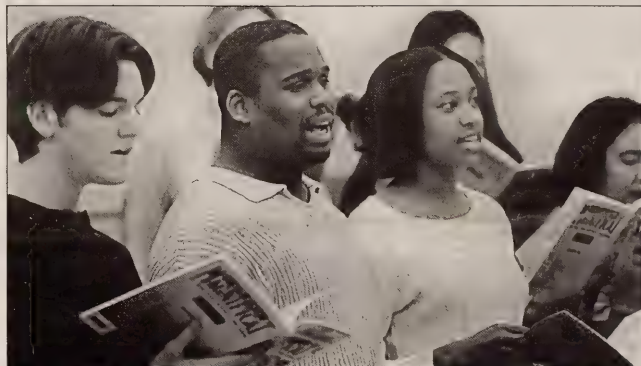
For 10 years he was head usher at Beaver Stadium, missing only one game. He was given the Edward Sulkowski Award from the Wrestling Club in 1992. Memorial contributions may be made to the Dr. Jack Light and Homer Barr Scholarship Fund, in care of the Penn State Wrestling Club, Box 316, State College, PA, 16801.

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Joyful noise

Student choir making sweet music



Heart and soul

Giving it their all during a recent rehearsal are members of the group "Essence of Joy," (from left) Ryan Booz, Jason LaMar Yates and Lachele Jack.

By LISA M. ROSELLINI
Public Information

For the members of the singing group "Essence of Joy," everything is about the music. Beautiful, soulful, moving music infused with the infectious rhythm of African American gospel.

What else but music could bring students from such an eclectic assortment of majors as nutrition science, theatre, vertebrate physiology and forestry into such a harmonious mix?

"It's uplifting, it's different, it's high-energy and it's fun," says Brian Gifford, a junior forestry major whose

In concert

You can catch "Essence of Joy" in concert at 6 p.m. Sunday, Nov. 24, in the School of Music Recital Hall. Tickets may be purchased at the door.

and how the audience can really get into it."

Gifford, who has been singing with the choral group for three semesters, smiles to himself as he

low, deep voice pegged him to sing bass for the group. "On stage, it's really hard to describe, but it's incredible the amount of adrenaline you can get going on

recalls a performance during a religious service at St. Paul's Baptist Church in Harrisburg. The congregation "got nuts."

"Clapping, standing up, singing," he says. "They were going crazy."

And that's what Anthony Leach, assistant professor of music and director of "Essence of Joy," calls "low-down church." The kind of performance his group thrives on.

"I try to engage the audience with the music I select," Leach says. "Until the audience gets over its own inhibitions or receives permission in

See "Joyful noise" on page 3

Photo: Greg Grieco

Students give service and so much more

By ALAN JANESCH
Public Information

Over the past two summers, four Penn State students logged a total of 3,600 hours of volunteer work in Philadelphia, bringing science, nutrition, art, dance and other programs to children and youth in Philadelphia. They also brought themselves a lasting sense of accomplishment and responsibility.

The four Penn Staters, all in the College of Agricultural Sciences, are Marney Dorsey, Shurl Harris, Karima Rose and Becky Vuong. They were the Penn State contingent of the Pennsylvania Service Scholar Program, which commits students to perform 900 hours of community service over a two- to three-year period.

Dorsey said that the program challenged her and taught her a lot about the kids she worked with—and herself.

"My background is in dance, and I worked with children suffering with sickle cell anemia, to help them learn how to express their feelings through art and dance," she said. "I really enjoyed working with the kids. Seeing them do something they didn't know how to do before and knowing I'd helped them, made me feel like we were part of the same family. It also made me realize it's important for me to share the things I've learned with others."

The Penn State program—the only multicultural service corps in Pennsylvania—is part of a statewide service scholar program supported by the Pennsylvania Campus Compact and the Corporation for National Community Service.

Statewide, it enables about 170 college and university students to work with community organizations and institutions to address unmet needs of

See "Service" on page 2

Inside



Lecture series continues

Next up in the Faculty Staff Club's lecture lineup is Civil War buff Gary W. Gallagher, who will speak on Dec. 4. For more information, turn to page 4.



Saving the trees

Research in Switzerland could help some tree species here in Pennsylvania avoid foliar injury due to ozone exposure. Please see page 11 for details.

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Service

continued from page 1

various kinds—such as educational, safety-related and environmental.

This summer, Dorsey, Harris, Rose and Vuong worked with local community groups in programs organized by the Penn State 4-H Extension Program in Philadelphia, in partnership with the Office of Volunteer Programs and Services, a division of Student Affairs at the University Park Campus. Among other things, they:

- Served as counselors in summer science day camps, leading projects in embryology, hydroponics, rocketry, wood science, nutrition, conflict resolution, leadership development and career exploration. Day camp participants, ranging in age from 5 to 16, represented many ethnic groups and income levels.

- Developed a training manual for more than 200 summer employees of the Philadelphia Department of Recreation, who work with 7,000 children and youth at 73 playgrounds throughout the city. The city recreation department was so pleased with the manual, it gave the service scholars a special commendation.

- Brought science and performing



Happy camper

Marney Dorsey spent her summer working with children with sickle cell anemia and/or the sickle cell trait at a day camp in Philadelphia.

arts activities to day camp participants with sickle cell anemia and/or the sickle cell trait.

- Worked with Southeast Asian youth on programs involving science, English as a second language, conflict resolution, music and nutrition.

The Pennsylvania Service Scholar Program is now in its second year. The Pennsylvania Campus Compact, which helps support the service

scholar program, is a private, not-for-profit program run by the Pennsylvania Association of Colleges and Universities. Created by college and university presidents, Campus Compact has helped higher education pursue both learning and community service.

Since 1989, Pennsylvania's institutions of higher education have donated nearly 10 million hours of service to surrounding communities.

■ Clip and save

Intercom schedule

Because of the holidays and the break in semester, the *Intercom* will conclude publication for the year on Dec. 5. Deadline for that issue is noon Tuesday, Nov. 26—one day earlier than originally scheduled because of the Thanksgiving holiday.

Intercom, the faculty/staff newspaper and official voice of Penn State, will return in 1997 on Wednesday, Jan. 15—one day earlier than the normal production schedule. The deadline for copy to be included in the Jan. 15 issue is noon Tuesday, Jan. 7, one week and one day prior to publication. Anyone with copy for that issue, should send it by e-mail to LMR8@PSU.EDU or AXM21@PSU.EDU.

The *Intercom* schedule for the spring semester follows:

Publication date	Deadline for copy
Jan. 15	Jan. 7
Jan. 23	Jan. 15
Jan. 30	Jan. 22
Feb. 6	Jan. 29
Feb. 13	Feb. 5
Feb. 20	Feb. 12
Feb. 27	Feb. 19
March 6	Feb. 26
Spring Break	Spring Break
March 20	March 12
March 27	March 19
April 3	March 26
April 10	April 2
April 17	April 9
April 24	April 16
May 1	April 23
May 15	May 7
May 29	May 21
June 12	June 4
June 26	June 18
July 10	July 1
July 24	July 16
Aug. 7	July 30

Penn Staters

L. Eric Cross, Evan Pugh professor of electrical engineering, received the IEEE Ultrasonics, Ferroelectrics and Frequency Control (UFFC) Society's Achievement Award for 1996. The award, which recognizes his long-term contributions to the field of ferroelectricity, his accomplishments in education and his participation in the UFFC Society, was presented to him at the 1996 IEEE International Ultrasonics Symposium in November.

Fredina Ingold, director of recruitment and marketing and director of athletics at the Penn State Altoona Campus, recently received the Council of Chief Student Affairs Officers' "Outstanding Services to Students Achievement Award." The award recognizes Ingold's efforts in rebuilding Penn State Altoona's athletics program and her efforts toward increasing enrollment.

Dale Jacquette, professor of philosophy, presented a paper on "Sellers on the Intentionality of Thought and Language in Empiricist Philosophy of Mind" at the Conference on the Philosophy of Wilfrid Sellars: A Session on Empiricism and the Philosophy of Mind, in Dunabogdany, Hungary.

John H. Kramer, executive director of the Pennsylvania Commission on Sentencing and professor of sociology and criminal justice, has been named interim staff director of the U.S. Sentencing Commission in Washington, D.C.

Kramer, director of the Pennsyl-

vania commission since its creation in 1978, is on leave from his two Pennsylvania posts to work for the federal commission under a contract that ends in May.

The U.S. Sentencing Commission was created in 1985 as an arm of the federal judiciary to develop a sentencing policy for federal courts. The commission's sentencing guidelines, which went into effect Nov. 1, 1987, are formulas used by federal judges and probation officers to ensure that people who commit similar crimes are similarly punished.

Charles S. Prebish, associate professor of religious studies, was the invited guest editor of a special focus edition on "Buddhist Ethics" for the *Journal of Religious Ethics*.

Karl Stoenefalk, professor emeritus of exercise science and former acting dean of the College of Health and Human Development, received the Distinguished Service Award from the Phi Eta Sigma National Honor Society at its 33rd national convention. The award was given to recognize Stoenefalk's dedication and leadership.

Cary Libkin, associate professor of theatre arts, directed "Spikes Heels" at the University of Texas. The production received four nominations by the Austin Critics' Awards and won Best Comedy of 1995-96. It was the only university-produced project to receive a nomination. Libkin also directed a showcase performance of

"Fragrant Harbour" at the John Houseman Theatre in New York City. The musical is part of the National Alliance for Musical Theatre Festival of New Plays. The music for "Fragrant Harbour" was composed by Ed Linderman, visiting professor of the School of Theatre this year.

Austin J. Jaffe, holder of the Philip H. Sieg professorship of business administration, delivered a keynote address and two presentations on housing issues at two recent conferences in Denmark.

His keynote talk, "European Housing: Fact or Fiction?" was made before the International Housing Research Conference in Helsinki, Denmark. At the same event, Jaffe, a member of The Smeal College's Department of Insurance and Real Estate, presented a paper titled "Comparative Legal Systems as a Predictor of Housing Policy." He also served as an invited presenter at the Young Housing Researcher's program held in Horsholm, Denmark, where he spoke on "Housing and Real Estate Economics: An Overview."

Philip Mosley, associate professor of English, communications and comparative literature at the Penn State Worthington Scranton Campus, is translator of a novel by Guy Vae, *October Long Sunday*, published by Peter Lang in its Belgian Francophone Library series.

DuBois lends hand to local school

The Penn State DuBois Campus faculty and staff lent a helping hand to the Redbank Valley High School by providing nearly 250 books and 15 IBM computers to the school which was devastated by flood waters earlier this summer.

Shortly after the flooding occurred, **John Farr**, assistant professor of physics at DuBois Campus, heard of the school's plight and alerted the campus community.

"This seemed like an opportunity where the campus could do a great deal of good," says Farr. "It was our chance to help a school district which has sent us some very good students."

The drive began as an attempt to help Redbank Valley refurbish its library, which was destroyed. Books were secured from the gift room at Patee Library and from the Mathematics Department at University Park. In addition, campus employees donated a variety of titles to the collection. Later, the computers, which came from the engineering technology programs at the campus, were added to the campus' contribution.

Joyful noise

continued from page 1

some cases to clap or get up out of their seats, then we connect. Sometimes the response is very, very quiet. The listeners go deeper into themselves to find the connection. Sometimes they're flushed and there's lots of tears, and sometimes they're in the aisles. We don't do your normal, sit down, change the channel concert."

Definitely not.

Performing contemporary and gospel songs from the African American tradition, the group's concerts elicit a visceral response from listeners that forces them to tap their feet, clap their hands, close their eyes and "feel" the music. In addition, the composition of the choir is not what first-time listeners expect.

"It is unique and novel that the majority of the membership has been and is white," Leach says. "This is quite a mix of students, but it's not about your ethnic or cultural background or your religion. It's about the music."

"It is not our differences that come to the fore; it's the music we share," he says.

For Leach and other African Americans in the group like **Oriyama Lineberger**, a sophomore soprano majoring in voice, and **Sunday Rivers**, a junior nutrition science major who sings alto, the music is home. Having been raised

a singing most of the same melodies in their churches as youths, all three say the songs are comforting and personal. Songs like "Freedom Come," "Old Time Religion" and "St. Louis Blues."

"This is the kind of music I grew up on," Lineberger says. "It's so energizing for everyone and I believe in what I'm singing about."

Rivers said she is glad when she looks around the group and sees the diverse mix. "It really shows that other people are interested in my culture and that makes me feel good."

As a choir, "Essence of Joy" is still in its formative stages. Started by Leach in 1991 as a "pick-up choir" to fill a request to perform music for a Martin Luther King dinner at University Park, "Essence of Joy" has grown to a 35-member ensemble with a dedicated following. At a recent October performance in the Eisenhower Chapel on campus, the group voiced the crowd with an upbeat, almost hip-hop-like rendition of "Glory, Glory Hallelujah!"

"We are not Penn State's gospel choir," Leach emphatically declares. "We do so much more than gospel. Our songs encompass a wide range of genres—sacred and secular—and we try new things always. Because it is not the African American tradition to sit down with a score of music, but rather to be taught by rote, these students are learning something valuable about themselves: they can ad lib; they can use skills they may not otherwise have known they had."

The fact that there is no sheet music to follow is something that seems to intrigue members of the choir.

"This is a chance to sing freely, how I want to sing," **Shawn King**, a senior tenor with "Essence of Joy," says. "There is a lot of improv in this type of music and there isn't the hindrance of sheet music."

Leach also says his musicians are not only learning about themselves, but also learning about a culture and a musical repertoire they normally would have encountered.

This experience enables them to be sensitive and to appreciate something that is not in their background," Leach says. "Having undergone a music that is exciting and vibrant with wonderful nuances has to produce wonderfully, healthy human beings."

"This is one of the most challenging choirs I have ever

Music fills his life

From behind his closed office door in 212 Music Building on the University Park campus, **Anthony Leach** can be heard robustly singing the words to a gospel tune. At certain points, he punctuates his impromptu solo with bangs on his desk to help the young musician he is advising learn the proper count for holding the notes in this particular piece.

Students walking through the hall barely look in the direction of the sound. They're used to Leach unleashing his powerful voice into spontaneous bursts of song.

An assistant professor of music and music education, Leach is a seasoned performer. Originally hailing from Washington, D.C., Leach was a choral leader for a high school, minister of music and organist for the New Bethel Baptist Church in Washington and also accompanist for the Howard University choirs.

"I came here on a one-year leave of absence from my high school job in 1991 to work on my Ph.D.," he said. "I never intended to get a job, but that one-year leave stretched into a

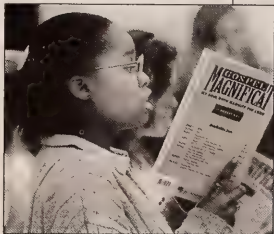
three-year leave until I decided this was a commitment I wanted to pursue. I saw a real need here to share my expertise in choral music and education."

In 1991, Leach borrowed a page from his past to help students from a variety of backgrounds learn and perform in the African American tradition. He formed "Essence of Joy" from a handful of students he had recruited from various other choirs on campus. Taking their name from a now-defunct capella group from Harrisburg, "Essence of Joy" began performing for various events on campus. By 1994 when Leach was appointed to the faculty at Penn State as an instructor of music, the choir had evolved into a group of about 24 polished singers with name recognition. Leach proposed that the choir become a course offering and for the first time last year, "Essence of Joy" bore one academic credit.

"I feel honored that students want to interact with me," he said. "It's a lot of work...but it's a hoot!"

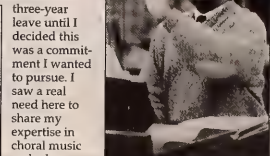
Leach also is director of the Penn State University Choir.

—Lisa M. Rosellini



Singer Oriyama Lineberger is serious about the music.

Photos: Greg Grieco



Anthony Leach

Countdown begins for United Way contributions

University Park employees have just two weeks to submit contributions for the 1996 United Way campaign. A joint celebration with Centre County United Way is planned for Dec. 11, at which time both the University and county hope to announce record-breaking donations. The University's goal is \$450,000.

Employees who have not yet responded to the annual fund-raising drive are reminded to forward contribution forms to the Payroll Office as soon as possible so totals can be included in the final announcement.

People now giving through payroll deduction who do not complete a new form indicating changes will continue to have deductions made at the previous amount.

Obituaries

Paul Scosah, an employee of Penn State for 16 years before retiring in 1980, died Oct. 9. He was 78. Scosah served in the Army during World War II and was a coal miner before working for the University.

Walter B. Storch, assistant supervising herdsman, Department of Dairy and Animal Science, died Oct. 5 at the age of 98.

Storch was a 1919 graduate of Troy High School. He attended Pennsylvania State College, where he studied dairy science. He was an official teacher for the Holstein Association and later a herdsman. On July 25, 1925, he was hired as a herdsman by Penn State, where he worked until his retirement May 1, 1959. He was a member of the St. Paul's United Methodist Church in State College.

Bernice E. Wasson, residence hall worker B, Housing and Food Services, from Oct. 16, 1960, until April 10, 1971; died Oct. 11 at the age of 86.

Therman W. Wiser, who retired in 1977 as supervisor of the research accounting department at Penn State after 19 years of service, died Oct. 18. He was 80.

Wiser, who also taught accounting and auditing at the University for six years before becoming supervisor, was a 1938 graduate of Penn State and received his master's degree in accounting from Penn State in 1952. He received a certified public accounting degree in 1958. He was a charter member of the Port Matilda Area Lions Club and served on the board of directors of the Bald Eagle Area School District, as well as taking part in other community groups.

directed. This choir just inhales music," he says. "You give it to them and they inhale it and they're ready to go. The energy I get from these kids—even when I'm dragging on a Sunday night."

"They nurture and stimulate me as much as I brow beat and intimidate them to perform with excellence."

It's the students' dedication, hard work and "sense of wonder," according to Leach, that has allowed "Essence of Joy" to achieve recognition across the University. But the group is only just beginning to stretch its wings and make a name for itself outside of University Park. Scheduled present its fall concert on Nov. 24 on campus, "Essence of Joy" also has been invited to sing at the Eastern Division Conference of Music Educators National Conference in Baltimore in February.

"These tours can be used as a measure of our success. But I don't want us to become too available. It's easy to become popular," Leach says, carefully emphasizing the last word.

As the visibility of the choir increases and our reputation truly does proceed us, it will remain to be seen what we will bring to Penn State."

LECTURES

Electrical engineer to speak on applying rules to the job

Jamie De La Ree Lopez, associate professor of electrical engineering at the Virginia Polytechnic Institute and State University, will give the Hispanics in Science and Engineering lecture at 7 p.m. Tuesday, Nov. 26, in Kunkle Lounge, Hammond Building on the University Park Campus. His lecture is sponsored by the Department of Electrical Engineering and is part of this month's Hispanic Heritage Celebration.

In his lecture, "Liability, Design and Education," De La Ree Lopez will discuss risk and creativity in problem solving and why some graduates have problems in their careers when they too rigidly apply the rules they've learned.

A native of Hermosillo, Mexico, De La Ree Lopez received his B.S. degree with honors in electrical engineering from Monterrey Tech, Mexico, in 1980, and his M.S. and Ph.D. degrees in electrical engineering from the University of Pittsburgh in 1981 and 1984, respectively. He received the title of University Scholar from the Uni-

versity of Pittsburgh in 1984. In 1984, he joined the faculty at Virginia Polytechnic Institute where he is currently an associate professor in the Center for Power Engineering in the Bradley Department of Electrical Engineering. His primary area of research is in power systems. De La Ree Lopez is a senior member of IEEE, Tau Beta Pi and Eta Kappa Nu.

De La Ree Lopez also will give a Department of Electrical Engineering graduate colloquium on "Phasor Measurement Systems: Theory and Implementation," at 2:30 Tuesday, Nov. 26, in room 371 Willard Building. The public may attend. Other events in Hispanic Heritage Month are a Puerto Rican Food Festival from 11 a.m. to 2 p.m. Friday, Nov. 22, at the Paul Robeson Cultural Center, and closing ceremonies and dance at 6 p.m. until midnight on Friday, Dec. 6, in the Nittany Lion Inn Ballroom.

For more information, contact **Latisha Mejias** at (814) 863-1412 or **Michael Blanco** at (814) 865-1773.

Managed care is topic of Dec. 2 talk

Lawton R. Burns, associate professor of health care systems at The Wharton School and director of research at the Leonard Davis Institute of Health Economics at the University of Pennsylvania, will give a lecture from 1 to 3 p.m. Monday, Dec. 2, in the Living Center in Henderson Building on the University Park Campus.

His lecture, "The Impact of Man-

aged Care on Integrated Delivery Systems," is part of the Issues in Health Policy and Health Administration seminar series and is co-sponsored by the Institute for Policy Research and Evaluation, the Center for Health Policy Research and the Department of Health Policy and Administration. The public may attend.

For more information, contact **Lee Carpenter** at (814) 865-9561.

Lecture focus is "Restoring Dignity"

Franciscan Brother **Bob Artman** will present a free lecture, "Restoring Dignity," at 7:30 p.m. Thursday, Nov. 21, in the Reed Union Building Lecture Hall at Penn State Erie, The Behrend College.

Artman has spent the last 16 years working with the homeless in Boston, New York and now Baltimore. He is coordinator of Our Daily Bread, a soup kitchen which has served more than 2 million meals. During his ministry, he has spent time working in the

former Yugoslavia as well as at this order's generalate in the Office for Justice and Peace.

Students at Penn State Behrend met Artman last spring when they traveled to Baltimore to work at Our Daily Bread as part of an Alternative Spring Break program. They have since formed an organization, Reality Check, supporting volunteerism.

For more information, contact the Penn State Behrend Office of Student Activities at (814) 898-6171.

Preservation of Civil War battlefields discussed Dec. 4

Gary W. Gallagher, professor of American history and former head of the history department at Penn State, will give the third Penn State Forum lecture at noon Wednesday, Dec. 4, at the Nittany Lion Inn on the University Park Campus.

The author or editor of 13 books in the field of Civil War history, he served as president of the Association for the Preservation of Civil War Sites, a non-profit organization with more than 11,000 members across the U.S., from 1987 to 1995.

His talk, "Civil War Battlefield Preservation: Should Americans Care?" will address the increasing confrontations between developers and preservationists, such as two that have erupted at Manassas, Va., (one involving Disney) and others centered around Brandy Station, Va., and sites in other states.

"My own view," Gallagher said, "is that we cannot understand the modern United States and its sectional and racial tensions without an understanding of the Civil War. Civil War sites are exceptional teaching tools, and we should preserve them as vehicles through which Americans can learn about the great issues of the mid-19th century that continue to reverberate in our current society."

Opponents of preservation argue that the National Park Service already protects enough Civil War sites; Civil War battlefields do little more than cel-



Gary W. Gallagher

brate war; the vast bloodletting and the institution of slavery are best forgotten; and Civil War sites tend to glorify the Confederacy and the slave-based system it represented. They also contend that preservationists want every inch of soil the war touched.

Preservationists, on the other hand, range from those who would protect every acre of every site to those who

look for a balance between protection and development. But nearly all insist that it is important to save Civil War sites to honor those who fought and died, and that without them our ability to understand the American past is diminished.

Gallagher is editor of *The Fredericksburg Campaign: Decision on the Rappahannock*; of the series, "Civil War America"; and of *Third Day at Gettysburg and Beyond*. He is author of *Stephen Dodson Ramseur: Lee's Gallant General*, among other works. Gallagher received a bachelor's degree from Adams State College in Colorado, and a master's and a doctorate from the University of Texas at Austin.

His talk is sponsored by the Penn State Bookstore and presented by the Penn State Faculty Staff Club. Lunch begins at 11:30 a.m. and the lecture with question-and-answer period begins at 12:10 p.m. Tickets are \$10 or at the Faculty Staff Club office at 110 HUB. For more information, call (814) 865-7590.

Dec. 3 lunch talk examines health care

"Trends in Health Care," the final noon talk in the 1996 Downtown Harrisburg Lecture Series, will be presented by **C.M. Gallagher**, director of regulatory affairs at Pennsylvania Blue Shield, on Dec. 3 at the Eastgate Center.

The talk will focus on the significant structural changes occurring in the marketing and financing of health care; the merging of hospitals; managed care trends; and legislative impacts on the market.

Gallagher, spokesperson and liaison

for Blue Shield in its dealings with various regulatory agencies, is responsible for new product, network and rate filings to the Pennsylvania Department of Health and Insurance. She also serves on a national advisory committee on insurance market issues with Blue Cross and Blue Shield Association.

She earned a bachelor of arts degree from Carnegie-Mellon University and an MBA from Penn State Harrisburg. To register for this free lecture, contact the center at (717) 772-3590.

Lecture, piano recital set for Nov. 22

Svetlana Brandt, graduate student of Penn State music professor **Marylene Dosse**, is giving a lecture and piano recital on the music of Russian composer Alexander Scriabin (1872-1915),

at 8 p.m. Friday, Nov. 22, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The lecture and recital are free to the public.

"Sharing the Dream; Living the Reality"

Jan. 20 dramatic presentation will commemorate Martin Luther King Jr. Day

Rehearsals have begun for "Sharing the Dream; Living the Reality," a dramatic presentation written and directed by Charles Dumas, associate professor of theatre arts, to commemorate University Park's 1997 Martin Luther King Jr. Day. It will be performed at 7:30 p.m. Monday, Jan. 20, in Eisenhower Auditorium. There is no admission fee.

The 45-minute drama chronicles how immigrants throughout history have come to Pennsylvania to fulfill their dreams of opportunity, freedom, democracy and nationhood.

"It focuses on the King dream of freedom and justice, and is set in the overall panorama of the American Dream, from the Native Americans through the founding of the Commonwealth by William Penn to its newest citizens," Dumas said.

The production features actors from the University Resident Theatre Company and Dumas' diversity theatre workshop, the Essence of Joy choir and the Community Children's choir, under the direction of music instructor Anthony Leach, and Native American dancers, step dancers and dancers from NOMMO Performing Arts Company.

"Throughout this year's activities, we will emphasize developing community and sharing Dr. King's dreams for intercultural understanding and civility on campus and in the community," James Stewart, vice provost for educational equity and chair of the 1997 Martin Luther King Jr. commemoration planning committee, said. "We also encourage faculty, staff and students to attend the volunteer fairs on campus or at the junior high school in January and commit themselves to community service in the spirit of Dr. King."

Earlier this month, Scott Kretchmar, chair of the University Faculty Senate, sent a letter to faculty who are teaching diversity-focused and related subjects next semester to encourage them to participate in and incorporate Martin Luther King Jr. programs in courses and out-of-class activities. For a list of readings for class discussions in conjunction with the play, contact the Office for Educational Equity at (814) 865-5906.

In a few days, posters, buttons and fliers designed by fifth-year senior graphic design major Amanda Barille will be in evidence across campus and in town announcing King activities. Buttons also are being sent to Commonwealth Campuses to promote King celebrations across the state.

In addition to the "Sharing the



Rehearsal

Charles Dumas, associate professor of theatre and author/director of "Sharing the Dream: Living the Reality," gives some pointers to Carla Hargrove, second from left, Madeline Gomez and Joyce Brew. The group was rehearsing the final scene of the play recently.

Photo: Greg Grieco

MLK commemoration planning committee members

Members of the 1997 Martin Luther King Jr. commemoration planning committee are:

James B. Stewart, chair, vice provost for educational equity; **Lydia Abdullah**, senior budget planning specialist; **Lea Asbell-Swanger**, events director, Eisenhower Auditorium; **Deborah Atwater**, head, Department of African/African American Studies; **Nikitra Bailey**, president, Black Caucus; **Rubin Bernejo**, president, Latino Caucus; **Patricia Best**, assistant superintendent, curriculum development, planning and research for the State College Area School District; **Julie Ann Bubolz**, president, Graduate Student Association; **Kenneth I. Clarke**, acting director, Center for Ethics and Religious Affairs; **Judith Curley**, executive director, Volunteer Center of Centre County; **Soumyalatha Dayananda**, undergraduate student government representative; **Charles Dumas**, associate professor of theatre arts;

James Elliott, director, human resources; **Melissa Marie Frank-Alston**, program director, volunteer services; **R. Scott Kretchmar**, chair, University Faculty Senate; **Anthony Leach**, assistant professor, School of Music; **Dorothy Lemeh**, administrative assistant, School of Visual Arts; **Robert Leonard**, professor of theatre arts; **William Gary Perdue**, senior producer/director, WPSX-TV; **Thomas G. Poole**, acting deputy vice provost, educational equity; **Christy Rameau**, news bureau manager, public information; **Karen Rugh**, director, university relations; **Arun Unni**, president, Asian American Student Coalition; **Lisa Wandel**, associate director, food services; **Susan Welch**, dean, College of the Liberal Arts; **William Welch**, mayor, State College; **Larry W. Young Jr.**, director, Paul Robeson Cultural Center; and **Eileen M. Williams**, staff support, Office of the Vice Provost for Educational Equity.

Dream; Living the Reality" production on Jan. 20, the following activities are scheduled at University Park:

■ **Wednesday, Jan. 15:** A commemorative bell ringing ceremony at noon in the lobby of Old Main.

■ **Friday, Jan. 17:** The Forum on Black Affairs Martin Luther King Jr. dinner will honor members of the community who embody King's principles—persistence, selflessness, love, risk, conviction, collaboration and faith. Ticket sales begin Dec. 2.

■ **Wednesday, Jan. 22:** Community Volunteer Fair from 6 to 8 p.m. at the

State College Junior High School, sponsored by the Volunteer Center of Centre County.

■ **Thursday, Jan. 30:** Student Volunteer Fair from 11 a.m. to 3 p.m. in the HUB Ballroom, where students can meet representatives of local human service agencies and organizations.

■ **Friday, Jan. 31:** Student Involvement Fair from noon to 6 p.m. in the HUB Ballroom. About 145 Penn State student organizations are expected to participate.

For more information, contact Stewart at (814) 865-5906.

Tickets

Tickets for the Forum on Black Affairs' Martin Luther King Jr. dinner to be held Jan. 17 will go on sale and can be picked up at the Paul Robeson Cultural Center on Dec. 2. Tickets for adults are \$20; for children age 12 and under, \$10. The price for a table of 10 people is \$210.

The dinner will be held in The Penn State Scanticon Presidents Hall. Guests will be seated beginning at 6:30 p.m. and dinner will be served at 7 p.m. If you have questions about tickets or would like to reserve a table, please call (814) 865-1779.

The ARTS

AT PENN STATE



Practice makes perfect

Hans Peter Nollert, left, and Niki Peterman perfect their technique under the direction of dance instructor KT Huckabee Milburn. The two dancers rehearsed recently for the newly choreographed piece "Simply Elemental," which will be performed Jan. 16-17.

Photo: Andrea Hurley

Display at Berks

A "New Acquisitions Display" will be on exhibit through Wednesday, Dec. 11, in the Freyberger Gallery on the Penn State Berks campus. Many of the works to be displayed were gifts to the campus from **Ruth Freyberger**, who established an endowment for the arts and art education for the campus in 1990. In addition to the "New Acquisitions Display," the gallery will feature a section on student photography.

Dance concert

The Penn State Dance Program will present "Choreographer's Showcase — Fall '96," on Thursday, Nov. 21, and Friday, Nov. 22, at 8 p.m., and Sunday, Nov. 24, at 2:30 p.m. The concert will be held in 132-133 White Building on the University Park Campus, and will feature Orchestral Dance Company, a student performing organization under the direction of **Patricia Heigel-Tanner**, assistant professor in the Department of Kinesiology.

The concert also will feature choreography by faculty member **KT Huckabee Milburn**, instructor in the Department of Kinesiology, as well as student choreographed works.

Tickets are \$5 for students and \$6 for the general public, and can be purchased at the door. For more information contact Heigel-Tanner at (814) 865-2720, or Kimberly Smith at (814) 867-3225. The Dance Program is housed in the College of Health and Human Development.

Bandorama '96

Bandorama '96 will take place in Eisenhower Auditorium at 8 p.m. Friday, Nov. 22. The entire marching Blue Band, with the Blue Band silks, Touch of Blue, feature twirler **Christine Wolfe** and Drum Major **Derrick Ometz**, will appear on stage.

The Symphonic Band will play a short concert of light selections. Following this, the Blue Band recreates its Beaver Stadium pregame entrance using the aisles and stage of Eisenhower Auditorium.

Reserved seat tickets are on sale now at Eisenhower Auditorium Box Office, or by calling (814) 863-0255. Adult tickets are \$11, students \$7, children \$5. Group rates are available.

Piano recital on Nov. 23

Pianist **Albert Frantz**, a student of Steven Smith, professor of music, will present a free recital at 8 p.m. Saturday, Nov. 23, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Essence of Joy

Essence of Joy will present its annual fall concert at 6 p.m. Sunday, Nov. 24, in the School of Music Recital Hall on the University Park Campus.

The theme of the concert is "My Soul Doth Magnify The Lord." Settings of this text and related compositions by African American composers will be featured. **Anthony T. Leach**, assistant professor of music and music education, is the director.

Student tickets are \$2; non-student tickets are \$4. Tickets may be purchased at the door.

Singing Lions Christmas show

The Singing Lions, Penn State's traveling show choir, will present their Fall/Christmas Show on Sunday, Nov. 24, at 2 p.m. in the School of Music Recital Hall on the University Park Campus.

The ensemble consists of 10 singers supported by a three-piece combo and technical crew.

Tickets will be available at the Recital Hall box office before the show. Prices are \$4, general admission; \$3 students and senior citizens.

Colonial-style music at DuBois

Return to a simpler time through an evening of holiday carols and traditional favorites played Colonial-style by historical musician **Dean Shostak**. Shostak will appear in concert at 7:30 p.m. Monday, Nov. 25, in the Hillier Auditorium as part of the Penn State DuBois Campus Cultural and Performing Arts Series. Shostak's performance is free.

Shostak, a musician with Colonial Williamsburg since 1979 and a nationally recognized pioneer in American music, plays violin, hurdy-gurdy and Benjamin Franklin's glass armonica (he is one of only six glass armonists in the world today) to combine history and humor with period and original pieces.

Trumpet recital

Russ Perlman, a student of **John Daniel**, assistant professor of music, will present a free trumpet recital at 8 p.m. Tuesday, Nov. 26, in the School of Music Recital Hall on the University Park Campus. Perlman is a senior majoring in music performance.

Student sculpture exhibit

A sculpture exhibition featuring student artworks will be on display through Tuesday, Dec. 3, outside of the Visual Arts Building and Arts Building on the University Park Campus. The works to be exhibited are by both beginning and intermediate students in the School of Visual Arts.

Bach's Lunch

The Penn State Trombone Choir, directed by **Mark Lusk**, associate professor of music, will perform holiday music selections at the free Bach's Lunch concert at 12:10 p.m. Thursday, Dec. 5, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish. The Trombone Choir consists of 25 undergraduate and graduate music majors.

Audience members may take a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Art Alley designs

The HUB's Art Alley panels on the University Park Campus feature a collection of designs from Spain by internationally acclaimed artist **Perry Oliver**, through Dec. 8.

Oliver, born in Pennsylvania in 1941, eventually established his residence in Malaga, Spain. A professional architect, he taught himself printmaking and for almost 25 years his work has been exhibited throughout the world. His work can also be seen in editorial projects and commercial ventures, such as the book covers for *Theater of the Mind* by Joyce McDougal, and *Out of the Blue* by David Cohen.

Art Alley Panels are on the first floor of the Hetzel Union Building.

Jewelry and figurines on display at Kern

The Kern Graduate Building art cases feature two collections, handcast figurines by **Janice Gainer** and Southwestern jewelry by **Denise Arieu** through Dec. 8.

Gainer's figurinal art collection features unique chocolateware figurines handcast from antique moulds and tole painted. Her work is in the Smithsonian's permanent collection.

Arieu's original jewelry designs feature Southwestern motifs. Her collection is exhibited in this annual event. The Kern Exhibition Area is on the first floor in the Kern Graduate Building.

Wood artist shows work

The HUB's Art Alley on the University Park Campus features the art of **Andrew Hottenstein** through Dec. 8. The artist combines wood carving, wood burning and painting to create his work. Hottenstein, a native of State College, has been working with this medium for 10 years.

The HUB's Art Alley is on the first floor of the Hetzel Union Building.

Pennsylvania Dance Theatre

The Pennsylvania Dance Theatre will present "Beyond Bounds," a season premiere event at 8 p.m. Saturday, Jan. 23, in Eisenhower Auditorium on the University Park Campus. The event will feature new commissions by choreographers **David Dorfman** and **Colin Connor**. Tickets, available at the Schwab Auditorium Box Office or the Eisenhower box office, are \$15 for the general public and \$10 for students with I.D. A \$1 discount will be given for tickets purchased in advance of the show. For more information, call (814) 863-0255.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, November 22

■ Palmer Museum of Art, 3 p.m., Christoffers Lobby. Gallery Talk, Catherine Cilenti on "Ancient to Renaissance Art at the Palmer Museum."

Graduate Student Association, 6:30 and 8:30 p.m., 112 Kern. Film, "Girl Six," through Nov. 23.

■ Graduate Student Association, 7 and 9 p.m., 101 Chambers. Film, "L'America," through Nov. 23.

School of Music, 8 p.m., Eisenhower Auditorium. "Bandorama '96" with O. Richard Bundy and Dennis Glocke, conductors. For tickets, call (814) 863-0255.

Health and Human Development, 8 p.m., 132-133 White Building. Penn State Dance Program presents "Choreographer's Showcase-Fall '96." For tickets, call (814) 867-865-2720 or (814) 867-3225.

Saturday, November 23

Friends of the Palmer Museum, 10 a.m. to 4:30 p.m., Palmer Museum. Ornament exhibition and sale, through Nov. 24.

School of Music, 8 p.m., Recital Hall. Piano recital by Albert Frantz.

Sunday, November 24

School of Music, 2 p.m., Recital Hall. "Singing Lions," Peter Kiefer, director. For tickets, call (814) 865-0431.

School of Music, 6 p.m., Recital Hall. "Essence of Joy," Anthony Leach, conductor. For tickets, call (814) 865-0431.

Tuesday, November 26

School of Music, 8 p.m., Recital Hall. Trumpet recital by Russ Perleman.

Sunday, December 1

Odyssey Through Literature, 6:30 p.m., WPSU-91.5 FM. Michael Anesko on "Badly Assorted Twins."

Monday, December 2

School of Music, 8 p.m., Recital Hall. "Penn State Philharmonic Students' Competition."

Tuesday, December 3

Kenny Rogers, 7:30 p.m., The Bryce Jordan Center. For tickets, call (814) 865-5555.

Wednesday, December 4

Stone Temple Pilots, 7:30 p.m., The Bryce Jordan Center. For tickets, call (814) 865-5555.

School of Music, 8 p.m., Recital Hall. "Jazz II and III."

Thursday, December 5

School of Music, 12:10 p.m., Eisenhower Chapel. Bach's Lunch Concert presents "The Penn State Trombone Choir (Christmas Music)."

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Glenn Williamson, curator, on "Contemporary Art from the Pincus Collection."

School of Music, 8 p.m., Recital Hall. "Student Composers' Concert."

Friday, December 6

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Jennifer Streib on "Highlights of the Palmer Museum."

School of Music, 7:30 p.m., Recital Hall, 110 Music Building I, 122 Music Building II and 128 Music Building II. "Winterfest Progressive Concert." For tickets, call (814) 865-0431.



On the schedule

The Pennsylvania Dance Theatre will present "Beyond Bounds," a season premiere event at 8 p.m. Saturday, Jan. 23, in Eisenhower Auditorium on the University Park Campus. For more information, call (814) 863-0255.

Photo: Linda Smith-Webster

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. University Resident Theatre Company presents "A Christmas Carol," through Dec. 7. For tickets, call (814) 863-0255.

SEMINARS

Friday, November 22

Faculty Staff Club, 11:30 a.m., The Nittany Lion Inn. John J. Curley on "The Role of the Press in the New Media Explosion." For tickets, call (814) 865-7590.

■ Economics, 3:30 p.m., 420 Kern. Giovanni Magli on "The Value of Trade Agreements in the Presence of Political Pressures."

Social Thought Program, 3:30 p.m., 406 Oswald Tower. Michael Lipscomb on "The Theory of Communicative Action and the Aesthetic Moment."

Geography, 4 p.m., 206 Walker. Gordon DeJong on "Motives for Migration: New Perspectives."

Monday, November 25

Economics, 10:30 a.m., 420 Kern. Derek Laing and Dan Henry on "Markets and Firms."

■ Comparative Literature, 12:15 p.m., 101 Kern. Philip Jenkins on "Fascist Writings Among Italians in Pennsylvania."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Sajid Alavi on "A Coupled Finite Element

and Dynamic Microbial Growth Model for Listeria Monocytogenes" and Neylor Calasans on "Effects of Incorporated Crop Residues on Evaporation and Soil-Water Movement."

Gravity Center, 2 p.m., 339 Davey Lab. Stephen Winters Hill on "Minisuperspace Quantization of a Spherically Symmetric Geometry with a Shell of Dust."

Physics, 3:30 p.m., 339 Davey Lab. Jeremy Baumberg on "Coherent Control of Electronic Processes in Nanocrystals."

Tuesday, November 26

Biology, 4 p.m., 8 Mueller Lab. Ralph Quatano on "Interaction Between the Cytoskeleton and Cell Wall in Establishing Polarity and the Plane of Cell Division."

Electrical Engineering, 7 p.m., Kunkle Lounge. Hammond Building, Jamie De La Hee Lopez on "Liability, Design and Education."

Monday, December 2

Comparative Literature, 12:15 p.m., 101 Kern. Jeffrey Walker on "What is, or was, Rhetorical Criticism? The View from Hecateus."

Continuing and Distance Education, 1:30-3:30 p.m., Studio D. Mitchell, Margaret Koble and Ellen Bunker on "Trends in Distance Education Research."

Institute for Policy Research and Evaluation, Center for Health Policy Research and Health Policy and Administration, 3 p.m.,

The Living Center, Henderson, Lawton R. Burns on "The Impact of Managed Care on Integrated Delivery Systems."

Tuesday, December 3

Biology, 4 p.m., 8 Mueller Lab. David J. Begun on "Origin and Evolution of a New Gene in *Drosophila*."

Geosciences, 4 p.m., 112 Walker. Roberta Rudnick on "Composition of Continental Crust: The View from Downunder."

Nutrition, 4 p.m., 110 Wartik Lab. Gordon Jensen on "The Geriatric Nutrition Research Alliance—Update and Future Directions."

4:30 p.m., 108 Boucke. Patricia Levin on "The Impact of Tourism on the Amish in Lancaster County" (with slides).

Wednesday, December 4

Gerontology Center, noon-1 p.m., 101 Health and Human Development East. Alan Booth on "Familial Influences on Young Adult Lives."

Thursday, December 5

Physics, 3:30 p.m., 101 Osmond Lab. Gordon Baym on "Recent Developments in Bose-Einstein Condensation."

■ Ecology, 3:45 p.m., 108 Boucke. Elisabeth Hale on "Feeding Behavior in Rock-dwelling Lake Malawi Cichlids."

Friday, December 6

Geography, 4 p.m., 206 Walker. "People's Coffee Hour."

CONFERENCES

Friday, December 6

The Penn State Scinticon, through Dec. 7. From "Disrupter to Achiever."

EXHIBITS

Outside Arts Building

Sculpture exhibition, through Dec. 3.

The HUB Art Alley

■ Collection of designs by Perry Oliver, through Dec. 8.

Wood art by Andrew Hottenstein, through Dec. 8.

The HUB Browning Gallery

Paintings by George Diaz, watercolors by Sofia Austin, paintings by Ramon Borges, paintings by Miriam Urquidí and photography by Willy Zayas. All are on through Dec. 8.

The HUB Formal Gallery

Photography by Ed Leos, through Dec. 7. Kern Exhibition Area.

The College of Arts and Architecture's Faculty Research and Creative Accomplishment Exhibition, through Nov. 30.

Jewelry by Denise Aries and figurines by Janice Garner, through Dec. 8.

Palmer Museum

■ "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidl Collection, College of Earth and Mineral Sciences," through Dec. 8.

"Abstraction to Figurism: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5.

Zeller Gallery

"School of Visual Arts Faculty Exhibition," through Dec. 13.

■ Reflects an international perspective.

News in Brief

Tickets for talk available

Tickets for the second lecture in the Penn State Forum series to be given Nov. 22 by **John Curley**, founding editor of *USA Today* and CEO of Cunniff Co., Inc., are \$10. They are available in the Faculty Staff Club office at 110 HUB. For more information about the event, scheduled to begin at 11:30 a.m. at the Nittany Lion Inn, call (814) 865-7590.

People with bulimia nervosa sought

A study is currently being conducted to explore the personality characteristics of individuals with bulimia nervosa. You may be experiencing bulimia nervosa if you:

1. Are bothered by recurrent episodes of binge eating in which you feel you have little or no control over the amount of food you consume;
2. Are bothered by recurrent behavior to prevent weight gain from the binges (e.g., vomiting, misuse of laxatives, fasting, etc.).

Subjects (age 18 or older) will be asked to fill out questionnaires and take part in a brief interview. Those who participate will be paid \$10 and will be provided with referrals for the treatment of bulimia nervosa. A telephone screening will help determine whether the study is suitable for subjects. Strictest confidentiality will be maintained.

Anyone who would like to be considered for the study should call **Michele Kasoff** at (814) 863-4833. The principal investigator on this project is **Louis Castonguay**, assistant professor of psychology.

World AIDS Day

A number of events to highlight World AIDS Day and AIDS Awareness Week are planned for the University Park Campus.

■ Nov. 25-Dec 4: Two 12-foot-by-12-foot panels from NAMES quilt of San Francisco will be on display in the HUB Galleries.

■ Nov. 25-Jan. 3: A new NAMES panel being presented by Penn State University Health Services students and staff will be on display in the lobby of Ritenour Building.

■ Sunday, Dec. 1: Day Without Art — Palmer Museum and various locations around campus;

5:30 p.m. — Candlelight vigil meets at the corner of College Avenue and Allen Street at the entrance to campus; and

■ Monday, Dec. 9: AIDS information table in the ground floor of the HUB.

For a full listing of all related events, log-in to the Web site at <http://www.vicon.net/~vbrandt/tot/home.html>.

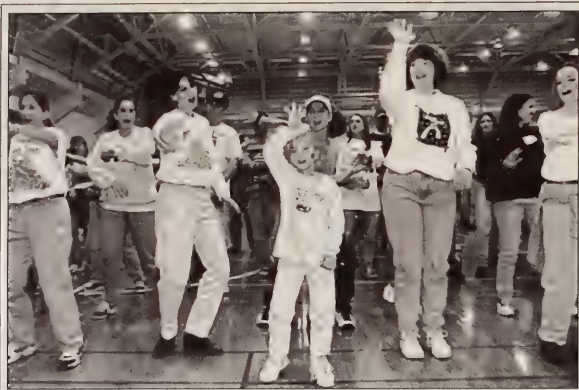
Craft sale

The members of the Hetzel Union Center for Arts and Crafts are holding their annual Holiday Craft Sale, Dec. 4, 5 and 6, from 10 a.m. to 5 p.m. in the HUB Fishbowl. Members will be selling their original arts and crafts which include pottery, jewelry, holiday ornaments and more. Contact the Arts Center if you have questions at (814) 863-0661.

Overweight females needed

Overweight female volunteers are needed to participate in a study at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building. The study involves eating meals (breakfast, lunch, dinner) in the laboratory Monday through Thursday of every other week between Jan. 20 and March 21, 1997. Each test meal consists of a variety of commercially available foods. No experimental or test foods will be used. This study is not designed to affect weight gain or loss. Volunteers must be 18-45 years old, able to eat a wide variety of foods, non-smoking, non-drugging and not pregnant or lactating. If interested please call (814) 863-8482 and ask for the study coordinator. Participants in this study will earn up to \$300.

The principal investigator on this project is **B.J. Rolls**.



'Thon fund raising begins

Amanda Ersels, center, leads the crowd through the 'Thon '96 line dance. Amanda was one of more than 150 Four Diamonds Family members to attend the first annual 'Thon Family Reunion Carnival, held Nov. 10 in White Building on the University Park Campus. The carnival, which featured jugglers, gorillas, grapes, popcorn, ice cream, music and dancing, was the kick-off event for this year's Dance Marathon fund-raising campaign. The event will be held Feb. 14-16, 1997.

Photo: Andrea Hurley

Nominations sought for faculty and staff achievement awards

Nominations for the 1997 Faculty and Staff Achievement Awards are being sought from University and local community organizations and individuals. Nominators should contact the Office of Human Resources at (814) 863-6188 to request a copy of a standardized format for submitting nominations. Nominations should be sent to **Billie S. Willis**, Box 6, Rider Building, no later than Friday, Jan. 10. Supporting information which accompanies nominations should be as brief as possible.

The awards include:

■ The McKay Donkin Award, established in 1969 in honor of the late McKay Donkin who served as vice president for finance and treasurer of the University from 1957 to 1968, consists of a \$500 stipend. The award is presented to the full-time faculty or staff, or retiree who has contributed most to the "economic, physical, mental or social welfare of the faculty" of the University. The contributions of the nominee should be for duties or services which are above and beyond his or her regularly assigned duties.

■ The Administrative Excellence Award carries a stipend of \$500 and is made to a member of the staff whose performance, methods and achievements exemplify administrative excellence. Criteria considered in the evaluation of nominees include total experience in an administrative position, levels of responsibility and authority, years of service at the University and in present position, and impact on own organization and on the University in general.

■ The Staff Excellence Award, established in 1993, carries a stipend of \$500. The award is made annually to a member of the staff of the University who has demonstrated and practiced the philosophy of continuous quality improvement, team spirit and managerial excellence. In addition, the person should have provided leadership in establishing a quality service orientation in the performance of

assigned duties. To be eligible for the award, full-time staff must have at least five years of University service.

■ The Support Staff Award is new for 1997 and carries a stipend of \$500. This award recognizes the overall high-quality performance of a member of the support staff in fulfilling the mission of the University and of his/her college or administrative unit. The award will be given to a full-time member of the support staff in recognition of dedicated focus to customer service, commitment to quality improvement, outstanding skills and abilities, teamwork and professionalism.

To be eligible for this award, a staff member must have at least five years of active University service.

■ The Equal Opportunity Award is designed to recognize a University faculty or staff member who promotes the concept of equal opportunity through affirmative action and/or contributes to enhancing the educational environment of the University through improving cross-cultural understanding. To be eligible for this award, full-time faculty and staff must have at least two years of active University service.

The award, consisting of a \$1,500 stipend, is given in recognition of meeting one or more of the following criteria: demonstrated commitment to the spirit of equal opportunity through affirmative action; demonstrated leadership in the elimination of discrimination through encouragement of understanding between people of different races, sexes, age groups, sexual orientation, ethnicity or religious heritage; demonstrated commitment to meeting the special needs of students, faculty or staff who are members of traditionally underrepresented groups.

Willis, assistant vice president for Human Resources, is chairing a general committee to solicit nominations for the 1997 Awards. Five subcommittees will screen nominations and develop recommendations for the respective awards. Early submission of nomination forms is encouraged.

Faculty/Staff Alerts

"Glad You Asked." No kidding

Need a question answered? Don't forget about the *Intercom's* new column, "Glad You Asked," that will deal with the first issue of the new year, "Glad You Asked," which is soliciting questions now from the University community, is part of an ongoing initiative to increase and improve communication at Penn State. Questions will be directed to and answered by sources in the areas that encompass those particular responsibilities. To ask a question, simply send an e-mail message to ask@psu.edu in care of the "Glad You Asked." Anyone submitting a question should provide their name and phone number so that *Intercom* can verify the source of the question. For publication purposes, *Intercom* will use the initials of the individual sending the question and their campus location or department, depending on the nature of the question. Requests for anonymity will be honored.

Holiday mail service

Mail service to the University community will be suspended from 5 p.m. Friday, Dec. 20, until 8 a.m. Thursday, Jan. 2, 1997.

Only buildings that currently receive direct delivery from the U.S. Postal Service will be eligible to receive mail during this time. To find out if your building is eligible to receive incoming U.S. mail, please call Paul Felzer at (814) 865-9171 or Gregg J. Ascuitto at (814) 863-8153 before Dec. 9, or check with the facilities coordinator for your academic/administrative area. Arrangements will be made with the U.S. Postal Service for eligible buildings to receive mail if so desired. Buildings that do not receive direct delivery will receive mail after the University resumes operation on Jan. 2.

Interoffice envelopes

Mail Services requests that all excess interoffice envelopes be returned to 108 Business Services Building in order to facilitate equal distribution to all departments. Also, please return any mail tubs that are being used for office storage. A critical shortage has occurred with these items and your help is needed to keep these items in circulation and to avert unnecessary expense.

Stone Valley mail

Stone Valley interoffice mail should be addressed to: Stone Valley, 108 Business Svs.

UPS packages

To ensure same-day processing of UPS (United Parcel Service) packages, they must be in Mail Services by 3:30 p.m.

Intercom online readership survey

In an effort to gauge how many readers are viewing *Intercom* through its Web site and as part a process to evaluate the content, design and readership of the *Intercom*, the Department of Public Information is conducting an online survey in which readers are asked to answer a short series of questions. The survey can be found at URL: <http://www.ur.psu.edu/intercom/survey/consent.html>.

The information you provide will be kept confidential and will be helpful in guiding the *Intercom* staff in its work. So far, around 110 individuals, some from as far away as the United Kingdom, have taken part in the survey.

HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form on page 67 of the HRDC course catalog. For a full description of the courses, log-in to the Web site at <http://www.ohr.psu.edu/> and click on the button for HRDC.

■ Redefining Responsibilities in an Electronic Office

Meets from 1:15 to 4:30 p.m. Monday, Dec. 2, in 319 Rider Building. Cost: \$35.

■ Quality Service Self-Assessment and Action Plan

Meets from 9 a.m. to 4 p.m. Wednesday, Dec. 11, in 319 Rider Building. Cost: \$55.

Library hours for Thanksgiving

In observance of the Thanksgiving holiday, Pattee Library and the Architecture, Earth and Mineral Sciences, Education, Engineering, Mathematics and Physical Sciences libraries on the University Park Campus will close at 5 p.m. Wednesday, Nov. 27, and remain closed on Thursday, Nov. 28. On Friday, Nov. 29, and Saturday, Nov. 30, the libraries will be open from 8 a.m. to 5 p.m. The regular schedule for library hours will resume on Sunday, Dec. 1.

In addition, the Music Listening Room in Pattee Library will be closed on Friday, Nov. 29, and Saturday, Nov. 30. Pollock Library will close at 5 p.m. Wednesday, Nov. 27, and remain closed through Saturday, Nov. 30. It will resume 24-hour service at noon on Sunday, Dec. 1.

For more information, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>.

Is your address correct?

Time is quickly approaching. To ensure there are no problems in receiving your W-2 in a timely fashion, the Payroll Office would like to remind you to make sure you have the correct address on file.

If your payroll check is direct deposited, your W-2 will be mailed to the office address shown on your deposit slip. If your payroll check is not deposited, the W-2 will be mailed to the address shown on the payroll check. If you need to make a change, please submit a new W-4 card as soon as possible.

Machine shop services available

The College of Engineering Machine Shop at University Park has added two new machines to its facility, both of which can be used by anyone in the University community. The wire EDM (electrical discharge machine) and rapid prototype machine are the newest additions to the shop's existing state-of-the-art equipment.

The wire EDM is similar to a jig saw in the way it cuts entirely through an object, but instead of using a blade, it uses a computerized numerical controller to guide an electrode wire through the object. This machine is popular because it can accurately cut all types of materials, is relatively easy to operate, and greatly reduces time and manufacturing costs.

The rapid prototype machine uses a technology known as laminated object manufacturing (LOM) to create prototypes from three-dimensional CAD specifications. Controlled by the computer image, the rapid prototype machine cuts thin sheets of paper and laminates them to produce a three-dimensional prototype which feels like wood. The LOM process may take up to 24 hours, depending on the complexity of the piece—a process which took up to several days using older technology.

Services provided by the College of Engineering Machine Shop are primarily intended to support the research activities of the College of Engineering. For the University community, all shop services such as projects involving the wire EDM or rapid prototype machine are available at the cost of \$25.34 per hour.

Anyone interested in using any services provided by the College of Engineering Machine Shop, contact George Field to discuss your needs. He can be reached by phone at (814) 865-4963, or by e-mail at george@engr.psu.edu. Additional information is also available on the Web at www.engr.psu.edu/esf/.

Nominations sought for Palmer mentoring award

Nominations for the Howard B. Palmer Faculty Mentoring Award honors are being accepted until Jan. 17. The award recognizes outstanding achievement by a faculty member who effectively guides and nurtures the collegial and professional development of junior faculty. The award was named in honor of the former senior associate dean of the Graduate School (1985-1991).

A committee appointed by the dean of the Graduate School, with the assistance of the senior faculty mentor in the Office for Minority Faculty Development, will select the recipient who will receive \$1,000 and recognition at the Faculty/Staff Awards event on April 6. Nominations may be submitted by faculty, staff and administrators.

To be eligible for nomination, a faculty member must meet the following criteria:

- Be a full-time University faculty member with five or more years of active service; and

- Exhibit exemplary achievement in the effective mentoring of junior faculty members.

Evidence of these criteria should be presented through a completed nomination form and statement of support that clearly identifies the outstanding qualities of the nominee. The statement should not exceed two single-spaced pages; supporting materials may include a biographical sketch or curriculum vitae, no more than three letters of support and other information pertinent to the nomination. Three copies of the nomination packet should be submitted to Blannie E. Bowen, 308 Kern Graduate Building, University Park, Pa. 16802. Nomination forms are available from Tammy Snook at (814) 863-1663. For more information, contact Bowen at (814) 863-1663.

Faculty Senate sets Dec. 3 meeting agenda

The University Faculty Senate will meet on Dec. 3 at 1:30 p.m. in Room 112 of the Kern Graduate Building on the University Park Campus. Items to be addressed include:

- Curriculum report of Nov. 19;
- Special Committee on General Education forensic session;

- Resolution from the Senate Committee on Student Life (legislative);

- Revision of policy (HR-23) to reflect the reorganization of the Commonwealth Educational System (advisory/consultative);

- Reserved spaces program (informational);

- Report on promotion and tenure recommendations and decisions in 1995-96 (informational);

- Phased retirement program (informational);

- Annual report of academic eligibility and athletic scholarships for 1995-96 (informational);

- Report on completion rates in independent learning courses (informational); and

- Grade distribution report (informational).

Members of the University community may attend. Anyone who is not a member of the Senate may ask to speak on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting.

Campaign enlists aid of four honorary chairs

Four honorary chairs have been named for the University's forthcoming capital campaign. They are **Robert E. Eberly**, Pennsylvania business leader; **Joseph Paterno**, head football coach; **William A. Schreyer**, chairman emeritus of Merrill Lynch & Co. and Penn State trustee; and **Frank P. Smeal**, retired Goldman, Sachs & Co. financial executive. All played key roles in The Campaign for Penn State, which raised \$352 million for academic programs between 1984 and 1990.

"Considered separately, each member of this group has contributed greatly to the betterment of Penn State with his leadership and philanthropy, not just in the last campaign, but in a variety of targeted fund-raising efforts before and since then," President **Graham B. Spanier** said. "Teamed together in support of what will be our most ambitious campaign to date, our honorary chairs will signal a strength of purpose regarding this venture to the public through both their vast expertise and loyalty to Penn State."

The campaign will aim to raise private funds for scholarships, graduate fellowships, faculty endowments and a variety of academic programs. The campaign's goal will be announced later, according to Spanier.

The honorary chairs will join campaign chair **Edward R. Hinz** in providing top volunteer leadership for the fund drive and soliciting major gifts.

Eberly is a 1939

Penn State chemistry graduate and chairman of the board of Eberly and Meade of Uniontown. He was treasurer of the previous Campaign for Penn State and treasurer of the National Development Council, Penn State's top fund-raising advisory body. He also has served as a member of the advisory board for the Penn State Fayette Campus near Uniontown since the board's founding in 1965.

After graduating from Penn State, Eberly worked as a chemist for the U.S. Navy and later became president of the Eberly Natural Gas Co. In 1969, he was named president and treasurer of the GNB Corp. and, in 1978, chairman of the boards of both GNB Corp. and Gallatin National Bank. He was named a Distinguished Alumnus of the University in 1972.

A \$10 million gift from the Eberly family during the last capital campaign endowed professorial chairs in every academic department of the College of Science, which was renamed the Eberly College of

Science to honor the family, and programs in biotechnology and a science endowment for the Fayette Campus. Other gifts from the family have supported the construction of the

William P. Hobby-Robert E. Eberly Telescope, built at the McDonald Observatory in Texas by Penn State and the University of Texas at Austin.

Paterno, Penn State's head football coach since 1966, has long been active in University philanthropic efforts, including service as a vice chairman of The Campaign for Penn State. He and his wife, **Suzanne**, met recently chaired the \$13.75 million Campaign for the Library, aimed at funding an addition to Pattee Library on the University Park Campus. In 1995, the University Board of Trustees announced that the addition will be named in the Paternos' honor.

One of the nation's winningest football coaches, Paterno has been a four-time choice of the American Football Coaches Association as Coach of the Year. Highlights of his tenure have been National Championships in 1982 and 1986, and a record 17 bowl game victories, including a win at the 1995 Rose Bowl.

A native of Brooklyn, N.Y., Paterno earned a bachelor's degree in English literature from Brown University before being selected as an assistant in the Penn State football program in 1950. He was named an honorary Penn State alumnus in 1973. He also has served on the National Development Council and the Libraries Development Advisory Board.

Schreyer, chairman of the previous Campaign for Penn State, grew up in Williamsport and earned his bachelor's degree in commerce and finance from Penn State in 1948. In his long career with Merrill Lynch & Co., he rose from executive trainee in the firm's Buffalo, N.Y., office to chairman and chief executive officer in 1985. He also has served as vice

chairman of the New York Stock Exchange and of the Securities Industries Association.

Schreyer was named a Distinguished Alumnus in 1979 and an Alumni Fellow of the Penn State Smeal College of Business Administration in 1983. He has chaired both the Penn State National Development Council and the Board of Trustees, of which he has been a member since 1986. As chair of The Campaign for Penn State, Schreyer headed a nationwide network of more than 1,000 volunteers whose aim was to make this one of America's finest public research universities.

During the campaign, Schreyer and his wife, **Joan**, endowed the William A. Schreyer Chair in Global Management Policies and Planning in the Smeal College. Notable gifts since then include a challenge grant designed to stimulate faculty/staff gifts to the Campaign for the Library and funding for the restoration and expansion of the Schreyer House, now used as the residence of University presidential families.

Smeal was born in rural Jefferson County and began his Penn State education at the DuBois Campus in 1939. Following his graduation with a degree in economics in 1942, he went on to earn an MBA from Harvard University and a law degree from New York University. He spent a 38-year career on Wall Street as an expert in the municipal bond market and remains a limited partner of the investment firm of Goldman, Sachs & Co.

He was named a Distinguished Alumnus in 1974 and an Alumni Fellow of the College of the Liberal Arts in 1986, and the DuBois Campus honored him as an outstanding alumnus in 1987. The Smeal College of Business Administration was named in honor of Frank and his wife, **Mary Jean**, also a 1942 University graduate, following their \$10 million gift to the college in 1989. It was this gift that put The Campaign for Penn State over the top of its \$300 million goal seven months before its scheduled end.

Other notable gifts by the Smeals include an endowed chair in literary theory and comparative criticism. They also kicked-off a fund drive for a new academic building at the DuBois Campus. In 1982, the couple endowed the **Katey Lehman Creative Writing Awards** in memory of Mrs. Smeal's sister, and in 1983, they endowed the **Henry W. Popp Graduate Assistantship in Botany and Plant Pathology** in honor of her father.



Joseph Paterno



William A. Schreyer



Robert E. Eberly



Frank P. Smeal

Schraer Mentor Award nominations deadline is Jan. 24

A selection committee to oversee the annual **Rosemary Schraer Mentor Award** has been established and the Commission for Women, sponsor of the award, is seeking nominations.

The award, created in memory of **Rosemary Schraer**, former associate provost for Penn State, honors a University employee who has excelled in helping others to recognize and achieve their potential professionally and personally. Schraer, who died in 1992, joined the University in 1959 as a faculty member in the Eberly College of Science and throughout her 26-year tenure, was

noted for her mentoring abilities. In 1985, she accepted a position as executive vice chancellor and then chancellor of the University of California, Riverside. The award recognizes individuals who have advised, facilitated, encouraged or paved the way for others. Consideration for the award will be given to any faculty or staff member who has a record of outstanding mentoring service going beyond the requirements of their employment. Nominations are due by Jan. 24, 1997 and should be returned to **Ellen Walker**, Commission for Women, 311 Grange Building,

University Park, Pa. 16802. Additional information and nomination forms are available by calling (814) 865-1683.

Members of the selection committee include: **Walker**, chair; **Ingrid Blood**, **Deborah Kleavans** and **Patricia Farrell**, all from University Park; and **Mila Su**, Penn State Altoona.

Contributions to help endow the award may be made payable to The Pennsylvania State University and sent to 1 Old Main, University Park, Pa. 16802, with an indication that contributions are to be credited to the Rosemary Schraer Fund.

Researchers find enzyme that may support life

BY BARBARA K. KENNEDY
Eberly College of Science

Researchers have discovered the function of an enzyme thought to control such life-sustaining processes as the clotting of blood, the secretion of cell products, and the safe disposal of dead cells.

"This research, plus additional work we have not yet published, indicates we may have found the first members of a previously unrecognized family of genes that code for these kinds of enzymes in all living cells," Robert A. Schlegel, professor of biochemistry and molecular biology, said.

Schlegel and his research team discovered that the enzyme's function is to control certain chemical reactions at the cell's surface. It moves one of the building blocks of the cell's double-layered protective membrane, a phospholipid molecule named phosphatidylserine (PS), from the outside to the inside layer of the membrane. When PS appears on the outside of the membrane, it serves as a foothold where other compounds can latch onto the cell, initiating reactions such as blood coagulation.

Schlegel and his colleagues determined that the enzyme, aminophospholipid translocase, pivots the cell membrane, flipping back to the inside any PS molecules that stray to the outside—unless they are needed for a particular reaction.



Robert A. Schlegel, professor of biochemistry and molecular biology, and his research team may have discovered the first members of a new family of genes.

Photo: Greg Gricio

"Researchers have found aminophospholipid translocase activity in every type of tissue where they have looked for it," Schlegel said. "It is of enormous importance in blood cells. We suggest it may have a common function in all cells—to trigger the recognition of dying cells that should be removed before their disintegration can do any damage—but that remains to be proven."

In blood cells, the enzyme keeps PS on the inside most of the time "so your blood clots only when you are cut, not when it is circulating in your veins," Schlegel said.

The enzyme also helps

certain cells die gracefully at the appointed time without causing harmful inflammation—a process known as programmed cell death or apoptosis.

"Apoptosis is one of the hottest topics in biology right now," Schlegel said. "It is a process in the development of adults from embryos and is very likely a process in such diseases as AIDS and cancer."

The function of the enzyme had been a mystery since it was first identified along with similar enzymes in red blood cells 20 years ago.

"We suspect that this enzyme is one member of a

whole family that controls a variety of important functions in all cells," Schlegel said. Because the function of an enzyme can affect how its gene is named, Schlegel said scientists probably will wait until they know what all the other members of this family of enzymes do before they give the new gene family a name.

Other members of the research team include Xiaojing Tang, postdoctoral fellow at the Fred Hutchinson Cancer Center; Margaret S. Halleck, senior research associate; and Patrick Williamson, professor of biology at Amherst College.

Poll phrasing can distort people's views

BY PAUL A. BLAUM
Public Information

The phrase "affirmative action" usually draws deep disapproval from white Americans during surveys. However, if pollsters explain specific affirmative action programs and their justifiable goals, white Americans respond more favorably.

This conclusion resulted from a comprehensive review of questions about affirmative action issues asked in national surveys. The study was conducted by Maria Krysan, assistant professor of sociology, and Charlotte Steeh, consultant at the Social Science Facility at the University of Wisconsin-Milwaukee.

"The way we frame questions can elicit certain answers," Steeh said. "Questions about affirmative action usually produce a negative response from white Americans, who either don't know much about affirmative action or equate it solely with preferences and quotas."

"Also, Americans have a tradition of individualism, which causes them to look askance at affirmative action," Krysan said. "On the other hand, when they understand the full range of affirmative action programs, then they become more supportive. This is in keeping with a second and in some ways contradictory American tradition: egalitarianism. In theory at least, Americans believe that everybody is entitled to a fair and equal chance to succeed."

"Affirmative action means more than quotas and preferences," Krysan said. "It also refers to open recruiting procedures, efforts to monitor progress in hiring and promoting underrepresented groups, contract set-asides for minorities and women and other proactive policies."

Unfortunately, a large number of Americans are not aware of the variety and purpose of most affirmative action programs. An April 1995 CBS/New York Times poll revealed that 34 percent of all white American respondents—55 percent of whom had not graduated from high school—could not think of any word or phrase when they heard the term "affirmative action."

"We suggest that survey questions can achieve greater validity by dropping the words 'affirmative action' altogether and describing instead the content of a specific affirmative action policy," Steeh and Krysan said.

Study may aid fight against ozone damage to plants

A cooperative research program between Penn State and the Swiss Federal Institute for Forest, Snow and Landscape Research in Birmensdorf, Switzerland is yielding interesting findings on ozone injury to forests.

Initiated in 1993, the program has just received another \$110,000 boost from the Swiss government to continue evaluating foliar sensitivity of nearly 50 species of plants found with ozone-like injury in the Swiss

forests. Headed by John Skelly, professor of plant pathology, and John L. Innes, section leader for the Forest Health Inventory and Intensive Monitoring Group in Switzerland, the project has already confirmed ozone as an injurious agent in the black cherry species. Ozone injury—marked by the dark red stippling on upper leaf surfaces—reduces the photosynthetic ability of an injured plant. Earlier ozone research by Skelly and colleagues on various tree species have

been confirmed by the symptom patterns seen on Swiss trees: black cherry trees are among the most sensitive to ozone.

Skelly's project is aimed at helping the Swiss government determine the proper standard to protect vegetation from foliar injuries. Skelly has worked similarly with U.S. agencies and says that because some species in the U.S. are the same as those in Switzerland, the results will be transferable.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Tip-off time changed

ABC Television's decision to air the Penn State-Michigan State football game at 3:30 p.m. Saturday, Nov. 23, has forced a switch of the tip-off time for the opening men's basketball game of the season, vs. Mount St. Mary's, from 8 to 8:30 p.m. The move was made to allow for a more orderly arrival for basketball fans at The Bryce Jordan Center. Shuttle service will be available from Recreation Building beginning at 7:30 p.m. for those going to the hoops opener and wishing to avoid the football traffic exiting the vicinity.

Hall of famer

Men's lacrosse Coach Glenn Thiel recently was inducted into the Virginia Lacrosse Hall of Fame, which honors men and women who have made significant contributions to the sport of lacrosse. Thiel is a member of the hall's second class of inductees. He was head coach of the Cavaliers from 1970-78, a period during which his teams won two National Championships.

Hoops

Preseason magazines have a lofty opinion of the Penn State basketball programs. *Sports Illustrated* ranks the Nittany Lions No. 18 in the nation and No. 3 in the Big Ten (behind Michigan and Illinois). The Lady Lions are No. 12 in SI's preseason poll. The men entertain Mount St. Mary's in their first regular season game on Nov. 23 at 8:30 p.m. The women are host to Maryland on Nov. 22 at 7:30 p.m.

It's a big one

Tickets for Penn State's showdown with defending NCAA wrestling champion Iowa in The Bryce Jordan Center on the University Park Campus are now on sale. The Nittany Lions and Hawkeyes square off at 8 p.m. Friday, Dec. 6, in the first collegiate wrestling match in the 15,000-plus seat Jordan Center. For ticket information, call the center at (814) 865-5555.



Flamenco Ole!

The group Flamenca Ole! performed as the opening act of Noche de Estrellas at the Paul Robeson Cultural Center on the University Park Campus. The evening of entertainment, part of the monthlong celebration of Hispanic Heritage Month, was sponsored by the Latino Caucus. The event included music, dance, comedy, poetry and latin foods.

Photo: Andrea Hurley

Planning Council updates schedule for open meetings

The following is an update on the remaining meetings scheduled by the University Planning Council to discuss the future of Penn State and to seek suggestions and comments from the University community.

Meetings at more than 20 locations across University Park and the Commonwealth have been held to date. In addition to these meetings, the UPC is also seeking suggestions via e-mail at Response@psu.edu.

Campus sessions

- Altoona
Nov. 26, noon-1 p.m.
- Harrisburg
Nov. 26
- The Hershey Medical Center
Dec. 4, noon-2 p.m.
- C2600 College of Medicine

- Allentown
Dec. 10, 1:30-3:30 p.m.
- 132 Academic Building
- Berks
Dec. 10, 9:30-11:30 a.m.
- 5 Luerssen Building

College sessions

- Agricultural Sciences
Nov. 25, 10:30-11:30 a.m.
- 324 ASI Building
- Communications
Nov. 22, 3-4 p.m.
- Carnegie Cinema

General sessions

- Office of Physical Plant
Nov. 22, 9-10 a.m.
- 105 Physical Plant Conference Room

PENN STATE INTERCOM

Department of Public Information
312 Old Main, University Park, PA 16802 Phone: (814) 865-7517
Address correction requested

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December 5, 1996

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The Penn State Press: Going strong after four decades

By ALAN JANESCH
Public Information



The Penn State Press turned a robust 40 this year, and despite the challenges facing university presses across the country, it's fit and trim and working harder and smarter than ever before.

Over the past several years, since the arrival of director Sanford G. Thatcher in 1989, the Press has:

- increased its annual output from fewer than 30 books to an average of 70;
- added several titles to its lineup of scholarly journals (which now totals 10);
- more than doubled its annual net income (to nearly \$2 million); and

■ shared major awards for 15 books and dozens of other honors. Thatcher is quick to give a large part of the credit for the Press's increased output to the hard-working, efficient Press staff, which has increased only modestly in numbers since the end of the 1980s and which has an average output of 3.9 books per employee per year. (The average is 2.6 books per employee per year for university presses as a whole).

See "The Press" on page 3

New purchasing system should soothe headaches, speed process

The University is putting the final touches on a new program that will make ordering departmental goods and services a lot easier.

In a pilot program that began in October, about 100 employees at the University Park, Fayette, DuBois and Behrend campuses and The Hershey Medical Center have been using the Penn State VISA Purchasing Card to order items under \$1,000 from businesses that accept credit cards. Purchasing Services plans to phase in the program for pre-authorized users University-wide this winter.

"Under this new program, employees who are pre-authorized to use a VISA Purchasing Card can order supplies directly from a vendor and charge their purchases on the spot, as they might on their own personal card at home," Betty J. Roberts, assistant vice president for Business Services, said. "VISA-capable suppliers who accept these transactions should receive payment within two to three business days."

Last year, a task force representing several areas of the University interviewed purchasing card providers, visited several universities and institutions, and examined current purchasing practices to streamline University purchasing procedures. The goal was to develop a program that simplified the process, but it had to be one that could be integrated into IBIS—the existing electronic accounting system. It also had to be easily controlled for accountability and responsibility.

The VISA program met these criteria. PNC Bank was selected as Penn

See "VISA" on page 3

University helping to build Internet II

By BARBARA HALE
Public Information

Internet II, the new, superfast, national computer network that U.S. universities are planning to create, has already started to take shape at Penn State. An Internet II-type link on campus is giving students a preview of the new network and the chance to use supercomputers, and one of Penn State's own is heading the national steering committee responsible for laying the ground work.

J. Gary Augustson, executive director of computer and information systems, is chairman of the national Internet II Steering Committee. He calls Internet II "the next stage of the Internet."

"Internet II is being developed primarily to address inter-institutional connectivity," Augustson said. "To give U.S. universities desktop-to-desktop, broadband connectivity—a step beyond what is available on today's Internet."

In practical terms, Internet II is being designed by Augustson and representatives of about 60 of the nation's leading research universities primarily to pick up where the original Internet left off. For example, Internet II will have much higher speeds—as much as 10 times faster than the current Internet— to enable better distance learning

presentations, video conferencing and online collaborative research.

As a side benefit, Internet II will enable students and faculty members to avoid the "traffic jams" that often clog the Internet today. The much-touted broadband-width connection of Internet II will allow more data to pass through than is currently possible.

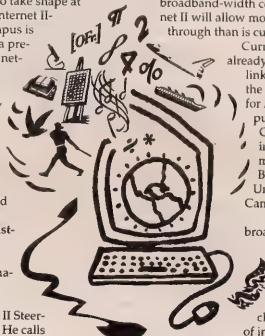
Currently, there is already an Internet II-like link running between the Penn State Center for Academic Computing (in the Computer Building) and the Hammond Engineering Building on the University Park Campus.

The high-speed, broadband-width link—which at 600 million bits per second can send an entire encyclopedia in 10

seconds—is used by students and faculty members in the Institute for High Performance Computing Applications to transmit data to remote sites and between some sites on campus.

For example, nearly 3,000 undergraduate and graduate students in 15 different science and engineering courses and research projects are learning to use a wide variety of computer codes, algorithms and languages to solve problems in mechanics, chemistry, mathematics and fluid dynamics. Those students are using two IBM-SUR Unix classrooms which are connected on the high-speed link. Some students

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Inside



The Ghost of Christmas Past
The classic Dickens' holiday tale "A Christmas Carol" will be retold in a first-ever collaboration between units in the College of Arts and Architecture. For details, turn to page 9.



Intercom schedule

This is the last issue of *Intercom* for the semester. But have no fear. *Intercom* will return Wednesday, Jan. 15. The deadline for submission of copy for that issue is noon Tuesday, Jan. 7. Happy Holidays!

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Life Sciences Consortium

It's time to sit up and take notice

By BARBARA HALE
Public Information

A few months ago, Penn State's Life Sciences Consortium (LSC) consisted of little more than high hopes, a modest Web site and a few determined deans and professors.

Now, the LSC has nine student fellows, a fellows coordinator, two graduate program co-directors, as well as Ph.D. and M.S. degree programs in integrative biosciences. And it has given the go-ahead to departments in four colleges to hire 12 new faculty members during the current academic year, each to be co-funded by the Life Sciences Consortium.

If you haven't previously noticed the LSC, now is the time to begin paying attention. You're bound to start bumping into people who identify themselves with the consortium as faculty members, students or advisers.

Officially, the LSC came into being on July 1 of this year after being approved by the University Faculty Senate and the Board of Trustees. It is light on administrative structure: Nina Fedoroff, who holds the Willaman Chair of life sciences and is a member of the National Academy of Sciences, is director. The graduate program co-directors are C. Robert Matthews, professor of chemistry and Eberly family professor in biotechnology, and Judith Bond, professor and chairperson of the Department of Biochemistry and Molecular Biology and assistant dean for graduate education and the MD/PhD program in the College of Medicine.

The LSC concept has evolved over a two-year period. A steering committee of senior faculty members from colleges with a life science component was originally charged with devising new approaches to research and graduate education for what was then referred to as a division of biological sciences.

Today's Life Sciences Consortium is quite a different concept than an academic division. It is a virtual organization that has no faculty of its own, but spans six colleges: Medicine, Engineering, Science, Health and Human Development, Agricultural Sciences and the Liberal Arts. More than 150 faculty members from those colleges are working together to promote research between the life science disciplines and other disciplines, and to provide a learning environment that integrates research and teaching, theory and practice. All of this is accomplished while using the most contemporary techniques, equipment and electronic communication. Interactive video conferencing has removed the barriers to cooperation between faculty members on the University Park and Hershey campuses.

The LSC's new integrative biosciences degree program has been approved. Fedoroff said the new Ph.D. and M.S. curricula will strive to produce a new type of graduate: aware of and comfortable with multiple career options, experienced in non-academic as well as academic settings and able to function both as an independent scholar and a member of a problem-solving team.

Fedoroff noted that at a recent NSF-sponsored workshop, a graduate student said simply, "You're preparing us for careers that don't exist."

The goal of the LSC's graduate degree program is to change these expectations by preparing students for a much more varied career," Fedoroff said. "We will expose our students to the increasing variety of occupations that demand scientific and technical knowledge. We will teach them to be life-long learners and problem solvers able to work both as individuals and members of a team. I believe that these skills will be increasingly val-

Need more?

For more information, visit the Life Sciences Consortium's Web site: <http://www.lsc.psu.edu>



Collaborative effort

Dorothy Sweeney, graduate fellows coordinator for the LSC, with graduate student Cheng Lu, one of the nine student fellows sponsored by the consortium.

Photo: Greg Grieco

ued in academia in the future as the availability of research funding continues to decline."

There are already nine LSC student fellows who were chosen last March and began arriving in September. These first fellows, who will receive two years of LSC support, were chosen from among students applying to existing departments and programs that had faculty members actively involved in developing new LSC options.

Matthews, co-director of the graduate program, said future fellows will not be chosen in this way. Rather, he and co-director Bond, together with Dorothy Sweeney, graduate fellows coordinator, will recruit them directly into the Integrative Biosciences Degree Program (IBDP). However, that doesn't mean that the IBDP will compete with existing life science degree programs.

"We're looking to complement existing programs and to work with them as much as we possibly can. What we've done in creating this new program is try to recognize the trends in research that have occurred over the last few decades," Matthews said. "Research activities and training experiences need to go beyond traditional departmental and disciplinary boundaries."

Current plans call for Integrative Biosciences Fellows to be funded by their faculty mentor or preceptor after the first two years of LSC support. LSC has funding for about 40 new students per year or up to 80 students at any one time. This will increase the demand for follow-up funding for the students' continuing years of study. To meet the demand, LSC expects to co-fund up to 50 new life science faculty hires, including 12 this year.

"The committee picked proposals that expanded interdisciplinary connections and added needed expertise," Fedoroff said. "For example, we approved two proposals for immunology faculty on the University Park Campus. Immunology is an area of strength in the Hershey Medical Center and the University Park positions will build new bridges, enabling our faculty to collaborate in ways they couldn't before."

Matthews said that, eventually, the LSC also would like to offer students the opportunity to pursue a traditional discipline as well as participate in one of the LSC's seven non-traditional integrative bioscience options.

"We're hoping that departments and existing programs will adopt these options, permitting students greater flexibility," he said. Dual advisers and internships are features that Matthews said he has talked with really like.

Fedoroff noted that internships offered through the IBDP will not necessarily be traditional co-op-style jobs. They may be shorter or intermittent. The student may go off campus for just three or four months or for a month at a time. The objective is to make the internship an integral part of the graduate degree program wherever possible. Both the timing and duration will be flexible.

Sweeney will be exploring possible internship opportunities in the pharmaceutical, biotechnology and agricultural companies, as well as opportunities in law firms, on Congressional staffs, at federal agencies and other science-based organizations.

"When a student comes in and says, 'I'd like a career in a certain company or field' but doesn't know how to get a job there, Dorothy Sweeney and I are willing to go right into the company, firm or agency and say, 'OK, we want to talk to you about the possibility of an internship,'" Matthews said.

Internet II

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J. Gary Augustson, chairman of the national Internet II Steering Committee

also are using the link to work interactively with computers at Penn State, the University of Illinois and Cornell to learn advanced programming for parallel computers using high-performance computer languages. Parallel computing allows students to solve problems at a faster rate because the configuration of the computer is such that portions of a particular problem are able to be worked on simultaneously.

"Students don't realize that the special link is there. They just know that they can run their code on those remote machines and see high performance," Lyle Long, associate professor of aerospace engineering and director of the Institute for High Performance Computing Applications, said. Long noted that the link was installed by a group led by Jeff Almstrong, CAC director of advanced information technologies, and has only been operational for a few months.

"We're still learning what we can do with it," he said. "We're trying to reach out to all disciplines at the University, not just science and engineering. There are some people in theatre arts, for example, who want to use simulations, which require massive computing power, to design 'virtual sets' for TV programs. The actors would perform in an empty room and the sets would be added later by computer simulation."

For more information

- About IBM SUR classrooms: <http://cac.psu.edu/~lnl/ibmsur/>
- About the Institute for High Performance Computing Applications: <http://cac.psu.edu/~lnl/ihpca/>
- About Jeff Almstrong's group: <http://cac.psu.edu/~aitl/>

The Press

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"The staff has consistently performed at a high level of productivity, year in and year out, and works incredibly well as a team," said Thatcher. "Their dedication to their jobs is directly responsible for the Press's growing reputation as a 'class act,' which is so important in attracting future authors. It's my responsibility as director to set a course for the Penn State Press to pursue, but without the staff to implement our program, we wouldn't get very far."

By making the Press more efficient and effective, Thatcher and the Press staff have been able to consolidate the Press's historical strengths in core areas like art history and literary criticism and also to expand the scope of its publications within the liberal arts. When he joined the Press, Thatcher began the consolidation and expansion process by filling a few key positions, implementing the use of computer technology in editing and design, and keeping key functions, such as design and marketing, in-house.

"Not only have we been able to maintain our already solid reputation in literary criticism and art history," said Thatcher, "we've also become a major player in the fields of philosophy, religion, American and European history, and medieval studies." In the social sciences, Thatcher said, the Press has gone "from virtual invisibility to high visibility" in political science and has established a presence in sociology.

It's also published important and interesting works on Latin America, Russia and Eastern Europe, in Jewish studies and African American studies, and in the interdisciplinary field of studies in science, technology and society which has a long tradition at Penn State.

Thatcher said that the heyday of university presses was probably in the 1960s, when universities had lots of money available to subsidize university press operations and when many university presses substantially increased their publication lists, introduced paperback lines and began to publish reference works—an extremely expensive proposition.

But the tough times began to hit in the 1970s, Thatcher said, and have gotten even tougher since then. Over the last 10 years especially, with libraries buying fewer books and fewer journals and universities reducing their financial support, university presses have been forced to shift their focus from the books and journals that scholars need to the books that will appeal to a wider audience and will sell in a more commercial and competitive marketplace.

"It's been a steady but pretty serious decline," Thatcher said. "Like all university presses, we have had to make more and more of our decisions based on market criteria rather than on scholarly merit."

Thatcher said the traditional role of university presses in the United States, first set up in the late 19th century, was to disseminate the new knowledge created by university faculty teaching at the graduate level. But in order to successfully face the realities of scholarly publishing today, the Penn State Press has adopted several new



Sanford G. Thatcher, man at the helm of the Penn State Press.

Photo: Andrea Hurley

strategies. One is using computers for editing and design. Another is publishing a diverse range of books, so that those that appeal to a general audience and sell well can internally subsidize the more specialized books that sell to a smaller audience.

The Penn State Press, for instance, has taken on a function often associated with state university presses—serving state residents by publishing books about the state's history, culture, wildlife, plants and so on. "Those books provide a source of income that we can use to subsidize more specialized books," Thatcher said. Still another strategy is issuing hardcover (cloth-bound) and paperback editions of books simultaneously, rather than cloth first and paperback later.

"We distribute more copies that way, and we feel that—all other things being equal—if we can at least break even, we'll be serving scholarship and teaching better by taking that route."

The Penn State Press isn't currently doing any electronic publishing. But it is part of a major effort, with other presses and libraries of the Committee on Institutional Cooperation (the academic counterpart of the Big 10 athletic conference), to obtain a two-year planning grant to figure out the best ways to publish books and scholarly journals electronically. But in the meantime, one of the Press's key objectives is to operate on a break-even basis.

"We're getting close," Thatcher said. "Our forthcoming book on the origins and development of the Nittany Lion mascot (see box) will no doubt become our best-selling book ever, and we hope it will help put us into the black. The book will be published in time for our first home football game next year and we've got high hopes for it."

About The Press

■ The Press published its first book, *Toward Gettysburg: A Biography of General John F. Reynolds*, by Edward J. Nichols, in 1958.

■ The Press's biggest bestseller ever, at just more than 20,000 copies (and still selling), is *Afro-American Writing: An Anthology of Prose and Poetry*, 1985, edited by Richard A. Long and Eugenia W. Collier.

■ Over the years, Penn State Press books have received important awards from many prestigious groups, including the Middle East Studies Association, the Society of Architectural Historians, the American Academy of Poets, the American Political Science Association, and the Gustavus Myers Center for the Study of Human Rights in the United States.

■ Forthcoming from the Press: *The Nittany Lion: An Illustrated Tale*, by Jacques-Louis D'Esposito and Steven Herlihy, both Penn State librarians; and *Time for Life: The Surprising Ways Americans Use Their Time*, by Geoffrey Godesby, professor of leisure studies at Penn State, and John P. Robinson, professor of sociology at the University of Maryland.

VISA

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State's banking partner after the University issued requests for proposals to 12 potential providers.

Unlike the old procurement system where purchasing requests had to wind their way through a series of departments for approval before the order was actually placed, the new VISA Purchasing Card program allows individual departments to control their everyday purchases and interact directly with vendors. Not only will vendors receive payment faster, but other benefits of the program include a reduction in administrative costs for the University as a whole; a reduction in duplication of efforts; faster spending approval; better capability for better spending analysis and contract negotiation. The card may also replace limited and prepayment orders.

Under the VISA Purchasing Card program, a pre-approved employee will order goods or services directly. The supplier will deliver the goods and submit the credit charge to the card-issuing bank elec-

tronically as it does for any other type of credit card charge. The bank then sends an electronic notice to Penn State for transmission to the cardholder's administrative area via IBIS. Each month the department verifies its charges on IBIS, which then goes to Accounting Operations and the University pays a monthly consolidated bill reflecting all VISA charges from all departments during that period.

"The beauty of the new system is that instead of issuing thousands of checks throughout a month, Penn State's VISA charges are paid immediately from a fund at the bank and the University then pays its monthly VISA bill with one check, just like everyone else," Traci Mathis, purchasing card coordinator, said.

Cards will be assigned to individual current employees, not departments. Departments will be asked to identify appropriate staff who will then submit a card request through IBIS. This request will need to be approved by the department's budget executive or administrator and financial officer. The cardholder will be responsible for all transac-

tions on the card in compliance with University policy and procedures, and will manage all receipts for reconciliation. The cardholder also must complete training to be authorized.

After the pilot phase, daily and monthly dollar limits are likely to be set according to the type of administrative unit or purchase. The VISA Purchasing Card cannot be used for cash advances, alcohol, meals (unless they are authorized group meals), traveling or any entertainment expenses, personal purchases, consulting, maintenance agreements and several other categories of goods and services. Most of these expenses are handled in other ways.

For more information, contact Mathis at (814) 865-3903 or check the Penn State home page on the Web for PC09 at: www.ohr.psu.edu/pages/policies.htm under the "Index of All University Policies," then "Purchasing Policies." PC09 also can be found under Policy Manual in GURU at: <http://guru.sp.psu.edu>.

Faculty/Staff Alerts

University Libraries hours

The University Libraries on the University Park Campus will have an extended schedule for finals, beginning Friday, December 6, and an abbreviated schedule during intercession, beginning Sunday, Dec. 15. For complete information on hours of library service, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>.

University Archives Penn State Room hours

The University Archives/Penn State Room (C107 Patten Library) will have new service hours beginning the week of Jan. 13. Spring and fall semester hours will be:

Monday, Tuesday, Thursday and Friday — 9:30 a.m. to 5 p.m.; and Wednesday — 9:30 a.m. to 5 p.m.

In addition, the University Archives/Penn State Room will also be open for visitors on the Saturdays of Parent's Weekend, homecoming and alumni reunions.

The University Archives house archival and manuscript collections related to the history of the University and the surrounding community. Materials can be used under supervision on site, but do not circulate.

HRDC course

The following course is being offered by the Human Resource Development Center. Registration for fee-based courses requires a completed registration form located on page 67 of the HRDC course catalog.

Motivating and Empowering Employees

Meets Dec. 18 from 12:15 - 4:45 p.m. in 319 Rider Building. Cost: \$35.

Golf course hours

The Penn State Golf Courses Walker Clubhouse December hours will be 9 a.m. to 5 p.m. Monday through Friday, and 9 a.m. to noon Saturday. January and February hours will be 9 a.m. to 5 p.m. Monday through Friday. For more information contact the golf shop at (814) 865-0257.

Call for artists' entries

Artists are invited to submit entries for the Nittany Lion Juried Exhibition to be held March 21 through April 17 at the Penn State Berks Campus Freyberger Gallery. This biennial exhibition highlights some of the most exciting artists of southeast Pennsylvania and beyond. The theme of the exhibit will be "time." Artists are encouraged to submit slides of works that connect with the idea of time. Working drawings that address the concept will also be accepted.

Cash merit awards will be presented and four to five artists will be invited to participate in the Groul-Kauffman Award Exhibition in the fall of 1997. For a prospectus or more information, contact Beverly Levine, gallery director, at (610) 320-4870.



Tempting feast

Robert Lima, professor in the Department of Spanish, Italian and Portuguese, looks over the dessert selections during the Puerto Rican Food Festival, held Friday, Nov. 22, at the Paul Robeson Cultural Center on the University Park Campus. The event, part of Hispanic Awareness Month, attracted more than 200 hungry guests.

Photo: Andrea Hurley

Winter parking regulations

Parking is prohibited in uncovered faculty/staff parking areas on the University Park Campus from midnight to 7 a.m. when snow accumulates, or when snow is predicted to accumulate in the evening or overnight. While some faculty, staff and students, for safety reasons, leave their vehicles on campus overnight when snow has fallen during their workday, those vehicles must be moved to one of the parking decks (Eisenhower, Nittany or HUB) if the vehicle is to remain on campus overnight. These vehicles must be back in their assigned lots by 8 a.m. the following business day to avoid ticketing or possible towing at the owner's expense.

Anyone with questions should contact Wanda Campbell in the Parking Office at (814) 865-1436.

Submission requirement for research studies

On occasion, the *Intercom* runs announcements of ongoing research studies in which subjects are being sought. Investigators wishing to submit information pertaining to the recruitment of human subjects must include not only the name and title of the principal investigator of the study, but also a copy of the approval letter from the University's Office for Regulatory Compliance. In the absence of such a letter, the assigned in-house tracking number given by the compliance office will be accepted. In addition, all announcements recruiting human subjects for study should comply fully with all guidelines set by the Office for Regulatory Compliance. For a copy of the guidelines, call (814) 865-1775.

News in Brief

Look to the sky

The Penn State Astronomy Club will conduct its last public Astronomy Open House for the season on Friday, Dec. 6, from 8 to 11 p.m. on the roof of Davey Lab. (In the event of cloudy skies, observations will be attempted on Saturday evening.)

Featured objects for the evening will include the planet Saturn and the Great Nebula in Orion. Other celestial objects also may be shown, depending on sky conditions. A planetarium show will be held in 541 Davey Lab.

The open house is free; everyone is welcome for a relaxing evening under the stars.

Tennis Center hours

The Penn State Tennis Center will be open 9 a.m. to 9 p.m. seven days a week through December and the holiday season, with the following exceptions:

- Dec. 24: Closes at 2 p.m.
- Dec. 25: The center is closed.
- Dec. 31: Closes at 2 p.m.
- Jan. 1: The center is closed.

Health program

The following health promotion program is being offered:

Weight Watchers AT WORK

The Weight Watchers AT WORK program will be available at University Park during the new year. The next series meets Wednesdays, Jan. 8-March 12, from noon to 1 p.m. in the Paul Robeson Cultural Center auditorium. Cost: \$115 (lifetime members, \$105). Members of the HealthAmerica HMO may be reimbursed for the cost of this program. New members are welcome at any time during the series.

Stressed and anxious?

Most people worry, but for some worrying is excessive, uncontrollable or overwhelming. The Stress and Anxiety Disorders Institute at University Park is conducting an ongoing research study which offers free therapy if:

1. You have experienced excessive and uncontrollable worry or anxiety for at least six months.

2. When worried or overly anxious, you also experience feeling keyed up or on edge, muscular tension, restlessness, difficulty concentrating, fatigue, sleep disturbance or irritability.

People ages 18-65 included in this study will receive 14 free sessions of psychotherapy, as well as assessments before and after treatment. A brief telephone interview will help researchers make a preliminary determination of the suitability of this program for participants. Strictest confidentiality is maintained. This National Institutes of Mental Health-funded study is being done under the direction of Thomas Borkovec, distinguished professor of psychology. Anyone interested in participating, should call 865-8201.

LECTURES

Modular math among Marker Lecture topics

Benedict Gross, professor of mathematics at Harvard University, will present the 1997 Russell Marker Lectures in the Mathematics in the Mathematical Sciences Series, titled "Modular Forms and Galois Representations," is sponsored by the Eberly College of Science and is free to the public.



Benedict Gross

The lectures, which will take place in 108 Warkitt Laboratory, include: "Polynomials with Rational Coefficients, an Introduction to Galois Theory" at 8 p.m. Monday, Jan. 13; "Algebraic Modular Forms" at 4:30 p.m. Tuesday, Jan. 14; "An Explicit Trace Formula" at 4:30 p.m. Wednesday, Jan. 15; and "Local and Global Galois Representations" at 4:30 p.m. Thursday, Jan. 16.

Gross is well known for his important contributions to the arithmetic of elliptic curves and modular forms. He also is known for his work

with a field of mathematics known as abelian integrals, which is at the crossroads of several major branches of mathematics.

A professor at Harvard University since 1985, Gross held professorial positions at Brown University from 1982 to 1985 and at Princeton University from 1978 to 1982. He has received a number of honors, including the Cole Prize in Number Theory from the American Mathematical Society in 1987. He was named a Fellow of the American Academy of Arts and Sciences in 1992 and held a MacArthur Fellowship from 1986 to 1991 and a Sloan Fellowship from 1980 to 1983.

Gross is editor of the *Journal of the American Mathematical Society*. He earned a bachelor's degree at Harvard University in 1971, a master's degree at Oxford University in 1974 and a doctoral degree at Harvard University in 1978.

Lecturer examines hazards of living in New Zealand

Helen Anderson, director of Earth and Ocean Sciences Research (Joint Government/University Research Institute) at the University of Otago, will give a seminar, "Is Living in New Zealand Hazardous? Coexisting with Plate Boundary Processes," at 3:30 p.m. Tuesday, Dec. 10, in 301 Steidle Building on the University Park Campus.

This talk will focus on the patterns and impacts of natural hazards in New Zealand. Anderson's research specialty is earthquake and related hazards in New Zealand, large-scale crustal deformation, and the impact of geologic hazards. Included will be examples from the general patterns of earthquakes and active faulting, the implications of the lack of recent earthquakes along the Alpine Fault in the South Island, recent/current volcanism of Ruape-

hu, landsliding at the Clyde Dam, and other landslides from within urban settings to huge landslides in mountainous areas. What does it mean for the country of New Zealand?

Anderson, who has extensive research experience, was educated at the University of Auckland and Cambridge, was a Fulbright Senior Research Scholar at U.C. Santa Cruz and was formerly president of the New Zealand Geophysical Society.

This seminar, co-sponsored by the Australian-New Zealand Studies Center and the Department of Geosciences, is open to the public. For additional information, please contact **Pat Corbett** at (814) 863-1603 (e-mail: pac9@psu.edu) or **Kevin Furlong** at (814) 863-0657 (e-mail: kevin@geodyn.psu.edu).

President's Awards nominations due soon

Nominations for any of the four annual President's Awards (for undergraduate students) and the Graduate Student Service Award to be given April 6 at the Faculty/Staff Awards event are being accepted until Jan. 17. The President's Awards include the Eric A. Walker Award, the Ralph Dorn Hetzel Award, John W. Oswald Award and the Jackson Lethbridge Tolerance Award.

A committee, composed of representatives from Student Affairs, the University Faculty Senate and the student body and headed by **Carol J. German**, associate director of student activities, will make a selection of recipients for these awards and forward them to the University president for approval. Completed applications, along with a supporting statement about a student's informal or personal contribution of time, energy, initiative, character and noteworthy items for consideration, should be sent to the Office of Student Activities in 225 HUB on the University Park Campus. Applications are available from that same office.

Award descriptions:

■ **Ralph Dorn Hetzel Award** —

Recognizes achievements and potential of outstanding undergraduate students who have demonstrated the qualities of leadership.

■ **Eric A. Walker Award** — Recognizes students in their senior year who have demonstrated leadership, citizenship, service and scholastic attainments.

■ **John W. Oswald Award** — Graduating seniors will be considered for this award based on their scholarship and involvement in athletics, social service, religious activity, student government, journalism, speech and the mass media, and creative and performing arts.

■ **Graduate Student Service Award** — Recognizes a graduate student who has best combined high academic achievement with leadership.

■ **Jackson Lethbridge Tolerance Award** — New this year, this award brings recognition to broad-minded students who openly promote responsible citizenship and civil respect for diversity within the Penn State community, while exhibiting a nature of respectful tolerance for the differences among our constituents.

Penn Staters

Ram B. Bhagat, senior research associate with the Applied Research Laboratory's Surface Engineering Center and an associate professor of engineering science and mechanics, helped organize the 1996 American Society for Materials International Surface Engineering Symposium in October. At the symposium, Bhagat presented three papers: "Finite Element Analysis of the Residual Stresses in Titanium Matrix Composites with FGM Interphase," "Wear Resistance of the WC-Based Cutting Tools in Machining Titanium," and "Low Temperature Coating of Nickel-Aluminum Bronze on 2618 Al for Wear Resistance."

Loukas N. Kalisperis, associate professor of architecture, delivered two keynote addresses on computer aided design and digital architecture at a recent conference and seminar in Brazil. His keynote talk, "Design Studio: Paperless and Digital," was presented at the NUTUA '96 (Núcleo de Pesquisa em Tecnologia da Arquitetura e Urbanismo) in Sao Paulo, Brazil. Kalisperis also presented the opening address, "Digital Architecture into the Millennium," at the First Semina de Informatica de Belas Artes, in Higienopolis, Brazil. While in Brazil, he presented an invited talk at the University of Sao Paulo's Department of Architecture.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and the Materials Research Laboratory, gave a plenary lecture on "Low Temperature Routes to Solid State Materials" at the Third Interna-

tional Conference on Solid State Chemistry in Bratislava, Slovakia.

W. LaMar Kopp, former deputy vice president for International Programs and professor emeritus of German, was presented the Lifetime Achievement Award from the Pennsylvania Council for International Education (PaCIE) in recognition of his "outstanding leadership and contributions to international education in the Commonwealth." Kopp also was awarded the Charles B. Kiese Award for the nationwide Association of International Education Administrators for "outstanding contributions to international education."

Bruce A. McPherson, associate professor of entomology, presented two papers and chaired a session reviewing biology, taxonomy and genetics of economically important fruit flies at the Working Group on Fruit Flies of the Western Hemisphere in Vina del Mar, Chile. While in Chile, he also served as an invited panelist in a workshop on the importance of international efforts for the South American fruit fly, sponsored by the International Atomic Energy Agency.

Russell Messier, professor of engineering science and mechanics, has been named a Fellow of the American Vacuum Society in recognition of his "sustained contributions to the area of thin film science and technology with particular emphasis on evolutionary structure zone models and their relation to preparation-bombardment-morphology-property relations."



MOC holiday hours

During this holiday season, the Microcomputer Order Center's regular business hours of 8:30 a.m. to 5:30 p.m. will change as follows:

Dec. 16-20: 8:30 a.m.-4:30 p.m.;
Tuesday, Dec. 31—closed; and
Jan. 2 and 3—closed for inventory.

Site license software packaging

All site license software that is reproduced by the MOC will be distributed in sealed packages. Please note that all site license software is subject to the terms of the standard MOC return policy—opened packages cannot be returned or exchanged (defective media will be replaced).

Apple holiday savings

Apple Computers Inc. and the MOC are kicking off the holiday season with a special "Apple Holiday Savings" program. Now through Jan. 19, receive a \$150 mail-in rebate with the purchase of any qualifying Macintosh desktop computer, Apple display (if sold separately) and Apple printer.

Contact the MOC

You can contact the MOC by phone at (814) 865-2100, fax: (814) 863-7514, e-mail: moc@psu.edu, or stop by 12 Willard Building on the University Park Campus. Remember to check the MOC home page at <http://moc.cac.psu.edu> for the latest product and pricing information.

Night owls can compute anytime in some residence hall computer labs

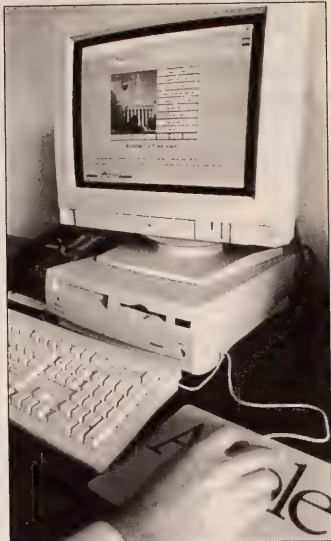
As of Nov. 22, Penn State students at University Park had somewhere new to go on the weekends—24-hour computer labs in residence halls. Labs in Redifer, Findlay, Warnock and Waring residence halls are now open 24 hours a day, seven days a week, with student assistants or "rovers" to troubleshoot the equipment periodically throughout the day and night.

The move was made because of the increasing use of electronic technology in instruction that requires students to access information via computer, particularly the World Wide Web. In addition to the 24-hour service, the Center for Academic Computing has increased the number of part-time student computer consultants in East Halls, where many freshmen are housed, to help first-time computer users get up to speed. The consultants help students in labs and even do house calls to individual rooms.

The number of log-ins to CAC and the Internet from student computer labs for all of the fall semester last year was 948,000; as of Oct. 31, this year, that number had already reached 709,000 with nearly a month to go before the end of the exam period. In addition to these users, about 3,100 students have direct connections to the CAC backbone from their rooms. Nearly all residence halls at University Park are wired for direct e-mail and Internet connection and the rest will be by the end of next year. Students off campus also can dial into their CAC accounts by modem.

Driving the increase in use is the growth in CAC computer accounts for faculty, staff and students, which has gone from 23,000 in 1993 and 51,000 in 1994 to 76,000 in the spring of 1995. As of last month, there were 102,000 accounts. CAC provides more than 1,400 computers in 25 labs across campus, most of which are open until midnight, Sunday through Thursday, and until 9 p.m. on Friday and Saturday. In terms of sheer volume, Penn State nearly outdoes the commercial Internet providers.

According to John T. Harwood, director of Education Technology Services at CAC, "On a typical day about 1 million mail messages per day are sent to or from Penn State faculty, staff and students. In addition, the CAC home page on the Web receives more than 200,000 hits or requests for information every day. These figures attest to the fact that electronic communication is a way of life at Penn State."



Logged in

Students who need all night to get their computer work done—and those who are night owls by nature—may now log in 24 hours a day at several computer labs on the University Park Campus.

Photo: Greg Gricco

The 24-hour computer labs join the 24-hour Pollock Library and the 24-hour HUB in offering round-the-clock activities for students wondering what to do on the weekend.

National higher education association names Spanier to board of directors

President Graham B. Spanier was named to the board of directors of the National Association of State Universities and Land-Grant Colleges. NASULGC is the nation's oldest higher education association of 192 public research universities, including all the land-grant institutions and many state university systems in all 50 states, the District of Columbia and U.S. territories.

Spanier also begins a three-year term as chairman of NASULGC's Commission on Information Technologies, after having served as vice chair. One of NASULGC's largest and most active commissions, the CIT was created to identify and develop policy positions and advisory assess-

ment on information technology and related policy issues of concern to association members and to the nation. As an advocate for higher education, CIT participates in federal initiatives relating to the development of the national information infrastructure.

Spanier also serves on the Kellogg Commission on the Future of State and Land-Grant Universities, composed of presidents from state and land-grant universities and members of the Kellogg Foundation. In addition, he has served on the American Council on Education's Commission on Women, the NCAA Presidents Commission and the Joint Commission on Accountability Reporting.

WPSX project provides free books

The simple gesture of giving a child a new book creates a wonderful ripple effect of joy, self-esteem, family bonding and learning. That's why WPSX-TV has joined a partnership with First Book, a national non-profit organization committed to giving children the opportunity to read and own their first new book.

Through this partnership, WPSX-TV, which is broadcast in 29 central and northcentral Pennsylvania counties and carried on more than 125 cable channels, is now able to provide free books monthly to disadvantaged individuals throughout the viewing area. The first distribution is targeted for Cen-Clear Head Start in Philipsburg, Blair County Head Start in Altoona and ARIN Even Start in Shelocta. Books are slated for delivery this month. The distribution pro-

gram is part of The Ready To Learn Service on WPSX-TV.

To provide the free books to local children, First Book has created a series of critical national partnerships that include: Barnes & Noble; Scholastic Publishing; The Corporation for Public Broadcasting; the Association of Library Services to Children; a Division of the American Library Association; B. Dalton Booksellers; the Association of Junior Leagues International; Share Our Strength; and Mondo Publishing.

Locally, Murata Electronics of State College has provided funding to WPSX-TV to purchase books from Scholastic and Mondo publishers in the coming year. According to Bill Speakman, director of development for WPSX, local underwriting is critical to the success of this initiative.

■ Martin Luther King Jr. Day, Wednesday, Jan. 15 Student makes dream visible with poster

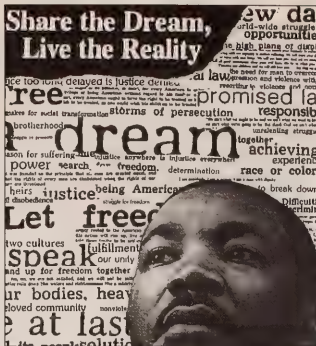
Fifteenth-semester graphic designer Amanda Barile from Auburn, N.Y., wanted to concentrate on Dr. Martin Luther King Jr.'s dream. She went to Pattee and read speeches, read accounts of his activities and focused on his words that have inspired hundreds of thousands to work toward freedom, solutions, promises, opportunities, justice, achieving together, being an American.

These are words she used to make visible the theme of this year's Martin Luther King Jr. Day commemoration, "Share the Dream, Live the Reality."

Early this fall, Robert Leonard, professor of theatre arts and a member of the Martin Luther King Jr. Day planning committee took the poster idea to art Professor Lanny Sommesse and, together, they developed the poster project for his senior design class in the School of Visual Arts. Once her design was selected, Barile continued to refine her design and work through the production process, with help from her classmates.

"This was such an interesting project because I learned about Dr. King as well as the various steps in the production process. Working every week with Bob and Lanny really helped me focus," she said. "Lanny really pushed me to refine my work and get the most out of the project."

Barile first became interested in graphic design when she was on the intercollegiate newspaper, the Tribeca Film Center during her sophomore year. At that time, she was a photography and film major, and, as an intern, she sometimes went to nearby design studios that specialized in magazine layout, CD cover designs and posters. She liked what she saw, switched her



Student Amanda Barile designed this poster to mark Martin Luther King Jr. Day. She and her classmates in Lanny Sommesse's senior design class produced it for a class project.

major and worked to follow her own dream. After graduation in May she plans to head West, maybe to California, to become what she saw — a designer of magazines, CD covers and posters in the fast-paced world of the entertainment industry.

Exhibits honor King's life

■ On Jan. 21, 1965, Dr. Martin Luther King Jr. spoke to an estimated crowd of 8,000 people in Penn State's Recreation Building. In remembrance of that historic visit and in tribute to King, the University Libraries will feature the exhibit, "Martin Luther King Jr. at Penn State: The Struggle for Equality," in Pattee Library's main lobby Jan. 11 through Feb. 1, 1997.

The exhibit will present notable highlights of King's visit, exploring the reasons why he chose to come to Penn State, and also why the planned visit for the fall of the previous year was postponed. It will address issues such as how the speech he gave related to the general historical events taking place at the time. The exhibit also will look at the larger historical context of the Civil Rights movement and the struggle for increased voting rights. A video recording of his speech will also be part of the exhibit.

■ In time for Martin Luther King Jr. Day celebrations and Black History Month, the HUB Formal Gallery has scheduled "Memories of Childhood. So We are Not the Brassy Bunch or the Cleavers," from the first week of classes in January through Saturday, Feb. 22.

It is an exhibit of how 15 photographers, print-makers and painters portray their childhood — images that celebrate diversity and multicultural heritage.

Artists from South and Central America, the United States, Africa, Asia and Europe, some of whom live abroad, have each created a set of childhood images that range from southern shanties, Japanese-American internment camps, artists studios and a Montana ranch, to Manchuria during the Chinese Civil War of 1948. The exhibit was put together by the Steinbaum Krauss Gallery, Ltd.

The HUB Formal Gallery is open from noon to 8 p.m. Tuesday through Thursday, and noon to 4 p.m. on Friday and Saturday. For more information, contact Ann Shields, head of the HUB and Kern Art Galleries.

Musical tribute rings out

Penn State and the community are collaborating in a musical celebration on Jan. 15, in honor of Martin Luther King Jr. It will be held in the Rotunda of Old Main on the University Park Campus at 11:30 a.m. with the bell ringing at noon. Students, faculty, staff and members of the community are invited to attend.

In addition to the Old Main chimes and bell-ringing instruments, students from the School of Music, local churches and the State College Area School District will join in the ringing celebration. President Graham B. Spanier will be the honorary bell ringer and those who attend will receive bells to ring as well. Both Spanier and James B. Stewart, vice provost for educational equity will give remarks.

The bell ringers will be joining hundreds of other bell ringers in communities across the country who are participating in a call from the King Federal Holiday Commission to ring in noon to "proclaim a day of Universal Peace and Nonviolence."

Closing the occasion at Penn State will be choirs from the community to sing "Let There Be Peace on Earth," a song that began with a group of teenagers in California in 1955 and has since journeyed around the globe through homes, schools, churches and clubs. It's been a theme for Veteran's Day, U.N. Day, 4H Clubs, the Kiwanis Clubs and CORE. Even the United Auto Workers began singing it. Since then it has spread abroad from New Zealand to Africa and has taken up by professional singers from Danny Kaye and Nat Cole to Rhonda Fleming and Stan Melton. The singers in Old Main will sing the Fred Warne song arrangement.

For information on how to participate, call Lydia P. Abdullah, senior budget planning specialist and member of the Martin Luther King Jr. Day Planning Committee, at (814) 865-7641.

EMT to the rescue — what a way to end the season

The football game with Northwestern was an important one for Penn State if there was to be a bowl game this year. But no one knew how important that game was for Vaughn Richard Packer, a 78-year-old season ticket holder.

"I've been going to games since the old Beaver Field with wooden bleachers on one side and woods on the other," Packer said. He has had season tickets for 25 years, but the game on Nov. 2 was nearly his last.

On this cold and wet day, his wife, Isabell, turned and saw him slumped over. "I said 'Dick,' and he didn't answer. Keith Darbin of Harrisburg and I screamed for the medics and they were there in a matter of seconds," she said.

When the first emergency medical technicians arrived, they found Packer was not breathing and had no pulse. The two crew members started CPR and called for advanced life support. As the Lions struggled on the field, the EMTs, paramedics and physicians of Emergency Medical Services began their fight to bring Packer back to life.

Dr. Richard Wuerz, medical director of the Advanced Life Support special events staff, arrived to direct the EMTs and paramedics from University Health Services.

As an emergency physician at The Hershey Medical Center, he has supervised hundreds of resuscitations, both in the hospital and during his seven years at Beaver Stadium. The special events Emergency Medical Services (EMS) system is a cooperative effort between The Hershey Medical Center Department of Emergency Medicine and the University Health Services Office of EMS. David Lindstrom is the Health Services staff member responsible for the administration and management of all special event EMS.

This time the EMS system worked perfectly. Packer was transferred to Centre Community Hospital breathing on his own and with a self-sustaining heartbeat. He was later moved to the Heart and Lung Center of the Williamsport Hospital and given a device that detects and corrects the life-threatening heart rhythm that caused his heart to stop beating.

The EMS staff was wondering how their patient was. They got their answer Nov. 23 just before the Michigan State game, when he appeared to introduce himself and to say thanks.

Packer was all smiles. "If I'd been anywhere else, I wouldn't be here now."

Packer's cardiologist, Dr. Joseph Calder of Williamsport, not only gave him permission to return to the stadium just three weeks after the heart stopped beating, but also gave the Packer tickets to attend. "They had given up their, assuming a long recovery."

"Mr. Packer lends a whole new meaning to the term die-hard Penn State fan. What a way to end the home game season," said Lindstrom.

The ARTS

AT PENN STATE



Guest conductor

President Graham B. Spanier took a turn at the conducting podium during the Penn State Blue Band's Bendorama '96 concert Friday, Nov. 22, at Eisenhower Auditorium on the University Park Campus.

Photo: Greg Grieco

Kwanzaa celebration

Penn State's NOMMO Performing Arts Company presents the 1996 Kwanzaa Community Celebration and Feast, an evening of African and African American dance, music and food, at 6 tonight in the HUB Ballroom on the University Park Campus. Tickets are \$7 and can be purchased from any member of NOMMO.

Jordan Center concerts

The Bryce Jordan Center has announced two upcoming concerts: Rusted Root will play on Jan. 18. Tickets at \$19.25, go on sale at 8 a.m. Friday, Dec. 6.

Gloria Estefan will be in concert Feb. 2. Tickets go on sale at 8 a.m. Saturday, Dec. 7. Ticket prices were not available at press time.

For more information, call (814) 865-5555.

Behrend Concert Choir

The Penn State-Behrend Concert Choir will perform a mix of contemporary and traditional songs at 3 p.m. Sunday, Dec. 8, in the Reed Union Building Commons.

Community Arts Center

Upcoming performances at the Community Arts Center, part of the Pennsylvania College of Technology in Williamsport, include:

■ Jan. 28 at 7:30 p.m. — "Kiss of the Spider Woman;" tickets are \$33, \$25.50, \$20.50.

■ Jan. 31 at 7:30 p.m. — "Royal Winnipeg Ballet;" tickets are \$25 for adults, \$20 for students.

■ Feb. 11 at 7:30 p.m. — "Singing in the Rain;" tickets are \$33, \$25.50, \$20.50.

■ March 12 at 7:30 p.m. — "Tommy;" tickets are \$33, \$25.50, \$20.50.

■ March 20 at 7:30 p.m. — Neil Sedaka; tickets are \$40, \$32.50, \$25, \$18.50.

■ April 4 at 7 p.m., and April 5 at 10:30 a.m., 2 p.m. and 5:30 p.m. — "Sesame Street LIVE;" tickets range from \$7.75 to \$12.75.

■ April 12 at 6 p.m. — "Enchanted Evening" presented by the Williamsport Symphony Orchestra; tickets are \$35, \$30, \$24, \$19, \$16, \$12.

■ April 17 — "To Kill A Mockingbird;" tickets are \$23 for adults and \$19 for students.

■ May 6 at 7:30 p.m. — "Pops Potpourri" presented by the Williamsport Symphony Orchestra; tickets range from \$12 to \$35.

■ May 7 at 7:30 p.m. — "Don Juan in Hell;" tickets are \$22, \$18.50, \$15.50. For more information about any of these performances or for tickets,

University Park Calendar December 6 - January 15

SPECIAL EVENTS

Friday, December 6

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Jennifer Sieb on "Highlights of the Palmer Museum."

School of Music, 7:30 p.m., Recital Hall, 110 Music Building I, 122 Music Building II and 128 Music Building III. "Winterfest Progressive Concert." For tickets, call (814) 865-0431.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. University Resident Theatre Company presents "A Christmas Carol," through Dec. 7. For tickets, call (814) 865-0255.

Sunday, December 8

Odyssey Through Literature, 6:30 p.m., WPSU-91.5 FM. John Fyler and Leonard Rubinstein on "Chaucer's Fun-house."

Sunday, December 15

Odyssey Through Literature, 6:30 p.m., WPSU-91.5 FM. Pier Larson and Leonard Rubinstein on "Tales of Cold Ancestors."

Sunday, December 22

Odyssey Through Literature, 6:30 p.m., WPSU-91.5 FM. Robert Neville and Leonard Rubinstein on "Broken Symbols."

Sunday, December 29

Odyssey Through Literature, 6:30 p.m., WPSU-91.5 FM. Archie K. Loss and Leonard Rubinstein on "Age of Great Dreams."

SEMINARS

Friday, December 6

Geography, 4 p.m., 206 Walker. "People's Coffee Hour."

Tuesday, December 10

■ Australia-New Zealand Studies Center and the Department of Geosciences, 3:30 p.m., 301 Steidle Building. Helen Anderson on "Is Living in New Zealand Hazardous? Coexisting with Plate Boundary Processes."

CONFERENCES

Friday, December 6

The Penn State Scanton, through Dec. 7. "From Drugler to Achiever."

The Penn State Scanton, through Dec. 7. "Creating a Space for Practitioners, Teachers and Researchers."

Monday, December 9

The Nittany Lion Inn, through Dec. 13. "Tax Week."

The Penn State Scanton, through Dec.

10. "Swallowed by a Snake: Healing through the Masculine Side of Grief."

The Penn State Scanton, through Dec. 11. "Traffic Engineering and Safety."

Tuesday, December 10

The Penn State Scanton. "The Psychology of Discipline."

Wednesday, December 11

The Penn State Scanton, through Dec. 13. "Wastewater Biology."

Thursday, December 12

The Penn State Scanton, through Dec. 13. "PASBO Food Service Directors Professional Development Program."

Monday, January 6

The Nittany Lion Inn, through Jan. 16. "Ice Cream Short Course."

EXHIBITS

The HUB Art Alley

■ Collection of designs by Perry Oliver, through Dec. 8.

Wood art by Andrew Hottenstein, through Dec. 8.

The HUB Browning Gallery

Paintings by George Diaz, watercolors by Sofia Austin, paintings by Ramon Borges, paintings by Miriam Urquidí and photography by Willy Zayas. All exhibits will be open through Dec. 8.

The HUB Formal Gallery

Photography by Ed Lees, through Dec. 7.

Ken Exhibition Arena

Jewelry by Denise Anrew and figures by Janice Gainer, through Dec. 8.

Palmer Museum

■ "Cooking for the Gods: The Art of Home Ritual in Bengal," through Dec. 8.

"When Coal Was King: Paintings from the Steidle Collection, College of Earth and Mineral Sciences," through Dec. 8.

"Abstraction to Figuration: Selections of Contemporary Art from the Pincus Collection," through Dec. 15.

"The Wood Engravings of Warren Mack," through Jan. 5.

Zoller Gallery

"School of Visual Arts Faculty Exhibition," through Dec. 13.

■ Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at URL <http://cac.psu.edu/calendar/>

Population Research Institute seeks proposals to fund research project

The Population Research Institute is requesting letters of intent for a proposal competition to fund pilot project research in the general area of biodemography. The research projects should focus on issues related to biobehavioral genetics, behavioral endocrinology and reproductive biology and health. Projects that combine aspects of biology and demography will receive special consideration. The goal of this funding initiative is to promote cross-disciplinary and innovative research that acknowledges both

the social and biological foundations of demographic phenomena (ie. fertility, mortality, fetal loss, risky behaviors). Funding for the one-year projects will be between \$15,000 and \$25,000.

Letters of intent are due Jan. 23. Full proposals will be due March 17. Contact Daniel T. Lichter at (814) 865-0486 (lichter@pop.psu.edu) or Diane K. McLaughlin at (814) 865-1833 (mclaughl@pop.psu.edu) if you have questions or to request a copy of the submission guidelines.

■ A holiday tradition

Collaborative effort gives new twist to the classic "A Christmas Carol"

By MATT MILLER

College of Arts and Architecture

Almost immediately after Charles Dickens wrote the holiday favorite "A Christmas Carol," it was adapted to the live theatre. Audiences found the story particularly suited to performance and over the years it has been performed in many theatrical versions, radio plays, films and even cartoons.

This holiday season, an all-new version of "A Christmas Carol" will be staged Dec. 6 and 7 in Eisenhower Auditorium on the University Park Campus, produced in a first-ever collaboration of the School of Theatre Arts and the Center for the Performing Arts.

But this won't be the usual production of the classic. With the talents of Penn State staff, students, alumni and others, the production will be full of special effects and holiday magic.

"The performance was conceived as a holiday gift to our community," Dan Carter, director of the School of Theatre Arts, said. "In order to accomplish a feat worthy of that goal, it was necessary to pool our resources and strive for something on a grand scale."

"Neither the Center for the Performing Arts nor the School of Theatre Arts could have done it on its own. Fortunately we live in an environment where collaboration is the order of the day. It is central to all we do and, consequently, second nature to us."

The hopeful message of "A Christmas Carol" will remain a large part of the story, and a creative team will design deliciously frightful effects the whole family will enjoy.



Practice makes perfect

Matthew Faison is Ebenezer Scrooge, left, and Jeremy Hall is Scrooge's nephew Fred in this scene from "A Christmas Carol." The two will perform in the show at Eisenhower Auditorium on the University Park Campus Dec. 6 and 7.

Photo: Andrea Hurley

"One of the things we struggled with was emphasizing the positive aspects of Scrooge's choice, rather than just his recoiling from the vengeance of hell-fire," Carter said. It is hoped the production will be staged again next year, and then on an every-other-year basis. Performance venues in Pennsylvania and elsewhere in the East have expressed interest in presenting the production in the future. Envisioned as a gift to Penn State and the community, the collaboration

involves a creative team full of talented alumni, staff and Pennsylvania Centre Stage regulars. Carter, theatre arts faculty Bob Leonard and Cary Libkin, and M.F.A. directing candidates Lewis Magruder, G. Valmont Thomas and Christine Wilson have written a memorable adaptation of the script in consultation with John Feimster, Penn State alumnus and author of the Oscar-nominated play "Agnes of God."

"The process of adapting the novel to the stage is one of the most exciting things I've ever done," Carter said.

Duke Durfee, a 1982 alumnus and associate designer of the Tony Award-nominated scenery for "Me and My Girl," "Nine," "M. Butterfly" and "Dancing at Lughnassan," will design the sets. Emmy-Award winner Dennis M. Sizemore will work as the lighting designer, Richard St. Clair, who has designed Centre Stage productions of "1776," "Funny Girl" and "Evita," will be the costume designer.

"This collaboration has given us a chance to work with some of our most accomplished alumni," Carter said.

If you go

"A Christmas Carol" will be performed at 8 p.m. Friday, Dec. 6, and 3 p.m. and 8 p.m. Saturday, Dec. 7, at Eisenhower Auditorium on the University Park Campus. Tickets may be purchased by calling the Arts Ticket Center at (814) 863-0255; toll-free (800) 278-7649.

CQI
CONTINUOUS
QUALITY
IMPROVEMENT

Communications dean sponsors CQI team

A new team in the College of Communications, Morale Movers, will study the results of the Faculty/Staff Survey and the comments the dean received in her lunches with the college staff last summer. The team will develop and pilot new processes and then recommend changes to improve employee morale. Dean Terri Brooks is the team sponsor, Sharon Symanovich is the leader. The role of facilitator will be shared among the members. Team members are Paulette Berner, Angie Bohon, Corinna Bressler, Beth Haupt, Amy Hensal, Leslie Hutchins, Lisa Richtscheit, Joseph Selden, Monica Spence and Simon Tarr.

Quality Expo '97 planning team meets

Planning team members for the April 17 Quality Expo are: Jean Barret, Gerry Browder, Larry Burton, David Dimmick, Jackie Esposito, Carol Everett, Alan Feimster, Dorothy Gay, Judith Hewes, Linda Klimczyk, Clare Kristofor, Monica Nachman, Dan Nugent, Sue Oram, Barbara Sherlock, Larry Spence, Karen Wagner, Ellen Walker and Betty Wilson.

Assessment and quality conference planned

The American Association for Higher Education Conference on Assessment & Quality will be held June 11-15, 1997, in Miami Beach, Fla. This year's conference theme, "Assessing Impact: Evidence and Action," considers the central question "What impact has evidence from assessment and quality improvement had on student learning, faculty and staff learning, institutional planning and operations, or society's views of higher education?" If you are interested in obtaining a conference session proposal form, please call the Center for Quality and Planning at (814) 863-8721. Proposals must be postmarked or faxed by Dec. 13.

For more information about Continuous Quality Improvement, please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, (814) 863-8721 or e-mail LES1@PSU.EDU.



Costume fitting

Carrie Thomas, left, is fitted for her costume by draper Tracy Sherritt Gray. Looking on is Richard St. Clair, costume designer for "A Christmas Carol."

Photo: Andrea Hurley

Highlight on Undergraduate Education

Learning to do research

An army of undergraduates is at work in Human Development and Family Studies

From the College of Health and Human Development

Franks Coyne heard about the Family Relationships Project from friends during his junior year at Penn State.

"They were very excited about it and talked about it all the time," he remembers. "So I contacted one of the graduate assistants and got an interview, and was accepted into the project."

Coyne, who recently graduated, spent several semesters working as an undergraduate research assistant on the study. He served on the project's front lines, interviewing children and their parents in person and by telephone.

"It's something that's not typical for undergraduates to do," he said. "It's been interesting to get the hands-on experience, to be involved in the research rather than just reading about it in class."

What's especially unusual is that Coyne had lots of company: He was part of an army of more than 50 undergraduates who have been participating each semester in the project, which is based in the Department of Human Development and Family Studies. Most serve as interviewers, while help double-check the data; and a few are involved in data analysis. For many, it's changing their college experience, their view of research—and their future plans.

The idea of making research a part of the undergraduate student experience is not a new one for the study's co-investigators, Ann Crouter and Susan McHale, who have recruited undergraduates onto their research team in several previous studies. The current research, funded by the National Institute of Child Health and Human Development, actually involves two simultaneous studies: one composed of families of fourth or fifth graders who have younger siblings and one involving families of ninth- to 11th graders who also have younger siblings. Altogether there are 400 families in the study and the research team spends 15 or more hours collecting data on each family each year. Before the project is over in 1999, the team will have conducted more than 1,200 home visits, each lasting about three hours, plus 8,000 telephone interviews.

"The key question in our research is, 'What makes two children from the same family so different?'" McHale said. The researchers are looking at similarities and differences in the children's interests, experiences, psychological development, relationship with other family members, and other factors. They also hope to learn more about how the parents' work experiences affect family life.



Unusual opportunity

Undergraduates are gaining valuable hands-on experience in the Family Relationships Project, housed in the Department of Human Development and Family Studies. More than 50 undergraduates have participated each semester in the project by interviewing families, checking data and getting involved in data analysis.

Photo: Scott Johnson

The co-investigators screen each student carefully, looking for people who are interested in children, have strong interpersonal skills, and are conscientious and reliable. "We tell them it's more like a job than a course," McHale said. "You can't just decide not to come one day."

Students who are accepted into the project sign up for a three-credit special topics course in human development and family studies. They spend the first part of the semester in a rigorous training process in which they learn, among other skills, how to interact with the children and parents, how to deal with shy children or those who get bored

during the interview and how to fill out the interview forms with precision. The training also involves interviewing a "practice child" (sometimes it's one of Crouter's or McHale's own children). Each student spends several nights a week in Beecher House on campus, calling children and parents and conducting half-hour telephone interviews with several families per night.

In addition, the undergraduates join Crouter, McHale and graduate students on trips to the families' homes, where they conduct in-person interviews. Many of the families live an hour or more from University Park, in such communities as Bloomsburg, Hollidaysburg, Lewistown and Williamsport.

But even the car rides become an educational experience for the students: "When you spend two hours driving back and forth with them," McHale said, "you hear about what they want to do with their lives." Crouter adds: "I get a lot of questions, and I'm sure Susan does too, about what it's like to combine a career with a family. Students ask me about my kids, where I was in my career when I had them, what kind of obstacles I ran into. It's all very informal, in the car, and I think they find that sort of thing valuable."

"And it's not just faculty contact," Crouter adds.

"When we ask students what they've gotten out of the project, a lot of them mention the contact with grad students. They're able to ask graduate students about the career decisions they've made, when's the best time to go to graduate school, and so on."

The result of the experience often is that students finish the course and immediately sign up for independent study credits, in order to continue with the project the following semester. Crouter and McHale also see students beginning to talk about graduate school and taking courses (such as upper-level statistics) that they might not otherwise have chosen.

"To me, research was always bland and boring, stiff people in laboratory coats," Lisa Tretta, a freshman who was invited onto the project in her first semester, said. "This isn't like that at all. It's more interactive."

As for Frank Coyne, he plans to go to graduate school—something he thinks he might not have considered if it hadn't been for the Family Relationships Project. And he's also been passing the word: "I've recommended the project to other friends and they've signed on," he said.

Promotions

Staff

Linda A. Nafe, coordinator, pharmacy inventory at The Hershey Medical Center.

Brenda L. Nauman, staff assistant VI at The Hershey Medical Center.

Jeanne M. Nindl, development assistant in Division of Development and Alumni Relations.

Lori A. Nybeck, outpatient scheduling coordinator at The Hershey Medical Center.

Carol A. Ownbey, staff assistant VI at Penn State Great Valley.

Linda M. Padisak, staff assistant VI in Division of Development and Alumni Relations.

Kimberly L. Pennington, senior cardiovascular center technologist at The Hershey Medical Center.

Suzanne E. Pinkney, LPN/MEDS at The Hershey Medical Center.

Matthew D. Prophet, applications programmer/analyst in Computer and Information Systems-Administrative Systems.

Rosemary T. Pruyn, admissions counselor in Office of Vice Provost and Dean for Enrollment Management and Administration.

John M. Rafacz, writer-editor in College of Arts and Architecture.

Judith A. Raybeck, senior research coordinator in Division of Development and Alumni Relations.

Elizabeth M. Risser, staff assistant VI at The Hershey Medical Center.

Bobbi J. Robison, staff assistant VI in College of Education.

Helen M. Rudolph, accountant aide in Division of Development and Alumni Relations.

Gregory E. Seeger, assistant engineering aide in Applied Research Laboratory.

Kelly A. Shiffer, staff assistant V at The Hershey Medical Center.

Brian E. Siskora, director, WPSX-TV, Continuing and Distance Education.

Carol Spangler, staff assistant VI in Division of Development and Alumni Relations.

Don E. Stewart, supervisor, Computer and Information Systems in College of Engineering.

Lisa D. Stock, staff assistant VII in College of Earth and Mineral Sciences.

Lisa D. Strouse, staff assistant VI in College of Health and Human Development.

Lisa J. Taylor, staff assistant VI at the Penn State DuBois Campus.

Traci A. Wade, staff assistant V in Eberly College of Science.

Jennifer A. Yeagley, staff assistant VI at The Hershey Medical Center.

Martha A. Zimmerman, staff assistant VI in Continuing and Distance Education.

Private Giving

Three named vice chairs of upcoming campaign

Three vice chairs have been named for Penn State's forthcoming capital campaign, President **Graham B. Spanier** announced.

They are business executives **Edward P. Junker III** of Erie, **Robert Klein** of Philadelphia and **William Weiss** of Chicago. All three are University alumni who were active in The Campaign for Penn State, which raised \$352 million for academic programs between 1984 and 1990.

"These three men have led leadership positions in more than a dozen companies and worked in many worthy social causes, giving them a breadth of experience that is crucial to any major fund-raising campaign," Spanier said.

The campaign will aim primarily to raise private funds for scholarships, graduate fellowships, faculty endowments and a variety of academic programs. The campaign's goal will be announced later, according to Spanier.

Under the direction of campaign chair **Edward R. Hinz**, Junker will act as vice chair for trustee gifts, Klein will act as vice chair for college- and campus-specific fund drives and Weiss will act as vice chair for leadership gifts.

Junker, a native of Carnegie, is a 1960 Penn State hotel administration graduate and vice president of the University's Board of Trustees. A member of the banking community in Erie since 1964, he became president and chief executive officer of Marine Bank in Erie in 1983 and has been a PNC Bank Corp. vice chairman since 1985.

He is treasurer of the Erie-Western Pennsylvania Port Authority, a trustee of the Erie Community Foundation, president of the Erie Zoological Society



Edward P. Junker III

and president of the Erie Conference on Community Development.

Junker was a member of the executive committee of The Campaign for Penn State and served on the National Development Council, the University's top fund-raising advisory board. He is former chairman and a member of the Council of Fellows at Penn State Erie, The Behrend College, and an alumni fellow since 1987 of both Behrend and the College of Health and Human Development.

He and his wife, **Barbara**, a 1957 Penn State graduate in physical education, established a scholarship fund at the Behrend College in 1987, and have supported The Bryce Jordan Center and University athletics with other gifts. He is also a past president of the Pennsylvania Bankers Association and a past national vice president of the Muscular Dystrophy Association.

Klein is a 1948 Penn State commerce and finance graduate and a past president of the Penn State Alumni Association. Following college and service in the U.S. Marine Corps during World War II, the Philadelphia native began his career as an industrial engineer at his family's business, Caloric Corp., at Topton, Pa.

He advanced to the position of president, chairman and chief executive officer before leaving Caloric in 1969 to work with the Alliance Well Corp. in a variety of domestic and overseas settings. In 1985, having risen to chairman and CEO of Alliance Wall, he sold the firm but continued to serve as general manager before heading up the 3 Springs Water Co. in Laurel Run, Pa.

Klein and his wife, **Judith**, a 1947 Penn State graduate in psychology, served on the national com-



Robert Klein

mittee of The Campaign for Penn State and co-chaired the regional efforts in eastern Pennsylvania and southern New Jersey. In 1986, the couple endowed the Robert and Judith Klein Professorship of Management in The Smell College of Business Administration.

Klein recently served on the committee to raise funds for The Bryce Jordan Center. He is a 1994 winner of the Penn State Distinguished Alumni Award and was named an Alumni Fellow in 1981.

Weiss was born in Big Run, Pa., and is a 1951 Penn State graduate in industrial engineering. After service in the U.S. Air Force, he joined the Bell Telephone Co. of Pa. in 1953 and rose to the level of vice president in 1973. He also held executive positions with Wisconsin Bell and Indiana Bell before becoming chairman of Illinois Bell in 1982.

When the Ameritech Corp. was formed in 1984, he served as its chairman and chief executive officer until retiring in 1994. He remains on the board of directors of Abbott Laboratories, Merrill Lynch, Tenneco and the Quaker Oats Co. In recognition of his work with the company, the Ameritech Foundation in 1993 created the William L. Weiss Chair in Information and Communications Technology in the College of Engineering.

The Weisses have supported a number of faculty endowments in the Colleges of Engineering and the Liberal Arts, most recently the Josephine Berry Weiss Chair in the Humanities.

Weiss also serves as a Penn State trustee, and was vice chairman of the National Development Council and a member of the executive committee for The Campaign for Penn State.



William Weiss

Penn College receives \$100,000 from the Caterpillar Foundation

Pennsylvania College of Technology has received \$100,000 through the Caterpillar Excellence Fund, a partnership between the Caterpillar Foundation, participating dealers and schools. There are only three other regional partnerships in the country which were funded at this maximum amount.

The Caterpillar Foundation contributed \$50,000 and three dealers collectively matched the amount. The participating dealers are Cleveland Brothers Equipment Co. Inc., with company headquarters in Harrisburg; Giles & Ransome, based in Bensalem, and Alban Tractor Co. Inc., in Sterling, Va. The Penn College initiative will be targeted over the five-state area covered by the Caterpillar dealers, including Pennsylvania, Maryland, Virginia, Delaware and New Jersey.

The primary objective of the Caterpillar Excellence Fund is to increase the pool of qualified service technicians to meet foreseeable product support needs. Additionally, the money will benefit students, faculty and equipment acquisitions in Penn College's heavy construction equipment and diesel technology programs.

Penn College has previously received Caterpillar Dealer Excellence Funds from Caterpillar Inc. and Cleveland Brothers Equipment Co. Inc.

Endowment supports self-defense course

A \$100,000 endowment from Carl P. and Mary Ann Giardini of Houston, Texas, is supporting a new, free self-defense and assertiveness course for women students and other educational programming of the Center for Women Studies.

The Alyson Giardini Endowment for the Empowerment of Women Studies recognizes the couple's three daughters and, more specifically, their daughter Alyson's commitment to women's social issues. Alyson is a 1993 graduate of Stanford University with a bachelor's degree in human biology and a master's degree in anthropology. She has been active in teaching self-defense for eight years to women of all ages and will be attending the New College of California in 1997 as a master's candidate in feminist counseling psychology.

A native of Bradford, Giardini is executive vice president for exploration and production with the Marathon Oil Co. He earned his bachelor of science degree in petroleum and natural gas engineering from Penn State in 1957, joined Marathon that same year, and has worked for the company

in various U.S. and international locations. He is an Alumni Fellow of the College of Earth and Mineral Sciences, a member of the Society of Petroleum Engineers and a director of the American Petroleum Institute and of Marathon Oil Co.

At the University Park Campus, the first free self-defense course made possible by the Giardini endowment was conducted in October. It addressed such topics as assertiveness traits and how they apply to self-defense in any setting; factors that increase the chance of attack and how to recognize them; and realistic, usable fighting skills.

The course is intended as a basic introduction to these topics and is open to all women. Information on future courses, expected to be offered every semester, can be found in 102 Boucke Building, or by calling (814) 863-2027.

The center also provides educational programming on women's issues. In 1995-96, the center was involved in 134 programs attended by 9,588 students, faculty/staff members, and other interested individuals.

Fall 1996 commencement dates and locations announced

The University will hold its fall 1996 commencement ceremonies for approximately 3,400 associate, undergraduate and graduate degree students on Sunday, Dec. 15, at the University Park Campus.

The undergraduate and associate degree ceremony will be held at 1 p.m. in The Bryce Jordan Center, and the Graduate School ceremony will be held at 4 p.m. in Eisenhower Auditorium. As of mid-November, the number of students scheduled to receive degrees at the two University Park ceremonies is 3,491. That figure includes 348 associate, 2,451 baccalaureate, 494 master's and 198 doctoral degree students.

In addition to the degrees earned at University Park, 94 baccalaureate degrees and nine master's degrees were earned at Penn State Erie, The Behrend College, and 254 baccalaureate degrees, 65 master's degrees and one doctoral degree were earned at Penn State Harrisburg.

President **Graham B. Spanier** will confer degrees at both the baccalaureate and associate degree program and the Graduate School program. **John A.**

Brigitte, executive vice president and provost, will preside at the 1 p.m. undergraduate and associate degree ceremony, and **Rodney Erickson**, dean of the Graduate School, will preside at the 4 p.m. Graduate School ceremony.

U.S. Rep. **Robert S. Walker**, R-16th District, Pa., chairman of the House Committee on Science, will speak at the undergraduate and associate degree ceremony, and **Anne C. Petersen**, senior vice president for programs at the Kellogg Foundation, Battle Creek, Mich., and former dean of Penn State's College of Health and Human Development, will speak at the Graduate School ceremony.

Walker, who has served in Congress since 1977, has been a strong advocate of basic research. He is vice chair of the House Committee on Budget, chair of the Republican leadership group and a member of the Republican Steering Committee.

Raised and educated in Millersville, Walker has a B.S. degree in education from Millersville University and a master's degree in political sci-

ence from the University of Delaware. Walker's district includes Lancaster and Chester counties; he is retiring at the end of his current two-year term.

Petersen provides overall leadership for programming at the W. K. Kellogg Foundation, a private grantmaking foundation established in 1930 to "help people help themselves." Its current priorities include higher education, youth, leadership, volunteerism and community-based, problem-focused health services. Previously, she was deputy director of the National Science Foundation, Washington, D.C., and vice president for research and dean of the graduate school at the University of Minnesota, Minneapolis/St. Paul.

Petersen, who has an international reputation for her research into adolescence, was at Penn State for 10 years. She served as dean of the College of Health and Human Development from 1987 to 1992, before that she was head of the Department of Individual and Family Studies (now Human Development and Family Studies).

Search under way to find new director of financial management

Raymond D. Nargi, director of financial management/associate treasurer, has accepted the position of assistant to the senior vice president for finance and business. A search for a director of financial management will begin immediately under the leadership of **Daniel W. Sieminski**, director of finance and business. Committee members include: **Joseph T. Donceez**, financial/administrative services coordinator, **Edward E. Washell**, financial analyst, **Gail A. Hurley**, administrative fellow, **Janeen M. Grasser**, financial officer, **James A. Rhodes**, director of development, and **Todd Hershbine**, employment/classification specialist as staff support.

The position has responsibility for all treasury functions, including banking, cash planning and debt financing; and also is responsible for supervising the investment of endowed and non-endowed funds; selection of investment managers and monitoring of their performance; determination of asset allocation and mix for mid- and long-term investments; analysis of investment strategies; development of reports for the University's Investment Committee and the Board of Trustees; and administration of consultants. The position serves as the principal interface with University development representatives in matters concerning special gifts from alumni and friends of the University.

A bachelor's degree (or equivalent experience) in investments, finance, or related field, plus more than 10 years of directly related experience is required. A master's degree is preferred. The successful candidate must have superb communications skills, demonstrate excellent administrative ability, be an innovative problem solver, and adept at managing a multiple-tasking environment. Resumes will be reviewed beginning Dec. 9 until an appropriate candidate is identified. Interested candidates should send a resume and a cover letter to: Employment and Compensation, Box JTH, 120 South Burrows Street, University Park, Pa. 16801.

Obituaries

Professor emeritus was 86

Theodore S. Spicer, 86, of Punta Gorda, Fla., a Penn State professor emeritus of fuel science for 31 years, died Nov. 1 at his home.

Spicer received a bachelor of science degree in fuel technology from Penn State in 1934 and was the first student in the country to graduate in that curriculum. He worked first for the Pittsburgh Coal Co., then Link-Belt Co. in Chicago, before returning to Penn State to teach. He was a registered professional engineer since 1945 and fuels consultant and held several patents on stokers and coal burners. He retired from the University in 1970 with emeritus status.

He was a member of the American Institute of Mining, Metallurgical and Petroleum Engineers; the American Society of Mechanical Engineers; the National Society of Professional Engineers; the American Society for Testing Materials; and Sigma Xi. He was the author of numerous publications and for 17 years served as associate editor of *Coal Utilization and Mechanization*, two magazines published in Washington, D.C. He was cited in *Who's Who in Engineering*, *Who's Who in the East*, *American Men of Science* and *Who's Who in Education*.

He is survived by his wife of 60 years, **Frances**, and their daughter, **Jean Spicer White**. **Robert H. Akers**, area regional office supervisor in the Central Milk Testing Laboratory, College of Agricultural Sciences, from Dec. 9, 1957, until his retirement Oct. 1, 1991; died Oct. 14.

Deaths elsewhere

Margaret H. Buyers, assistant University editor in the Department of Publications, from Sept. 1, 1939, until her retirement July 1, 1966; died Oct. 12. She was 89.

Harold C. Clark, janitorial worker/group leader, Utilities, in the Office of the Physical Plant, from Aug. 5, 1968, until his retirement Oct. 30, 1991; died Oct. 27. He was 66.

Marian N. Fohringer, residence hall worker in Housing and Food Services, from Sept. 6, 1966, until her retirement Jan. 9, 1981; died Oct. 26 at the age of 78.

Gerald F. Hall, an instructor in the Department of Aerospace Engineering in the 1960s, died Oct. 20 at the age of 59. In 1980, he became assistant professor of aerospace engineering at Texas A&M University, and since 1984, was employed as associate professor of aerospace engineering at the United States Naval Academy.

He received his bachelor of science degree in aeronautical engineering in 1960, his master of science degree in 1965, and his doctor of philosophy degree in 1974, all from Penn State.

Earl G. Johnston, record supervisor, DHIA, in the College of Agricultural Sciences, from June 1, 1948, until his retirement Oct. 1, 1981; died Oct. 19 at the age of 78.

G. Dwayne Kidwell, materials processing engineer at the Applied Research Laboratory, from Feb. 15, 1984, until his death Oct. 30; he was 59.

Katherine H. Lauck, senior registration clerk in the Registrar's Office, from March 16, 1952, until her retirement Feb. 1, 1971; died Nov. 4. She was 85.

Marie C. Smith, staff nurse at The Hershey Medical Center, from June 29, 1991, until her death Sept. 27. She was 46.

Ray M. Smith, associate professor of engineering research in the Applied Research Laboratory, from Dec. 1, 1945, until his retirement Jan. 1, 1977; died Oct. 22 at the age of 80. Smith, who earned a bachelor of science degree in electrical engineering from the University of Kansas, was a volunteer for the Special Olympics, the American Red Cross, the Schlow Library and the Fred Waring Association.

Henry T. Sturcken, professor of romance languages in the College of the Liberal Arts, from Sept. 1, 1955, until his retirement June 30, 1986; died Nov. 14. He was 68.

Dorothy E. Whippo, residence hall worker in Housing and Food Services, from Oct. 16, 1960, until her retirement Sept. 11, 1973; died Nov. 18. She was 82.

Appointments

Health and Human Development names new external relations staff

Jean Erstling is the new coordinator of external relations for the College of Health and Human Development, where she will be responsible for communication and marketing efforts, including the publication of *Health & Human Development News* and the college's research magazine.

Stephanie Motschenbacher has been named assistant coordinator of external relations. She will assist in the development and implementation of external relations plans and will create marketing and promotional materials for the college.

Before joining the staff of the college, Erstling was development director for the Easter Seal Society of Central Pennsylvania, a position she held since 1992. At Easter Seals she was responsible for direct mail and special events fund-raising, as well as media and donor relations.



Jean Erstling

Stephanie Motschenbacher

tion and scheduling and for station promotion. She also coordinated on-air membership campaigns.

Erstling has a bachelor's degree in English and dramatic literature from the University of Western Ontario and has done graduate work in speech communication at Penn State.

Motschenbacher comes to the college from Juniata College in Huntingdon, where she served as associate director, marketing and external relations, since January 1995. She was responsible for strategic communications activities to support enrollment, alumni relations, development, athletics, international relations and the office of the president.

Before working at Juniata College, Motschenbacher was associate director, communications, for the Capital Area United Way in Lansing, Mich. From 1985 to 1993, she was graphic specialist with the Service Parts Operation Division of General Motors in Flint, Mich. As project manager for the corporate computer graphic system, she managed activities and system design with multiple GM divisions and Electronic Data Systems team leaders.

Motschenbacher graduated from the Michigan State University with a B.A. in graphic design and an M.A. in public relations.

Hazleton Campus welcomes new financial aid coordinator

A new financial aid coordinator joined the Penn State Hazleton Campus.

Mary C. Kosin has been named to the post. In that position, she is responsible for providing information and counsel about financial aid to students and their families. More than 75 percent of students who attend Penn State Hazleton receive some form of financial aid.

Kosin is a graduate of King's College, Wilkes-Barre, with a B.S. degree in accounting. Before joining Penn State Hazleton she had been a financial aid counselor at King's College, with responsibilities that included contacts with lending institutions, financial aid seminars and training for support staff in the Office of Financial Aid, and working with students and their families to provide financial aid information and assistance in application procedures.

Development and Alumni Relations appoints associate vice president

Peter Weiler has been appointed associate vice president for development and alumni relations. He held the position on an interim basis for more than five months. The Office of Development and Alumni Relations last year helped obtain a record \$82.3 million in private gift support.

In this role, Weiler will supervise managers and development officers responsible for the core functions of planned giving, annual giving, corporate and foundation relations and regional programs, as well as program support activity in information systems, administrative services and constituent relations.

He also will be responsible for college and campus development activity through the executive director for university development and the director for university development. The director of development for The Hershey Medical Center will continue to report to the position of associate vice president for development and alumni relations.

Since October 1989, Weiler has been a member of the senior management team within the division, serving for seven years as assistant vice president and executive director of the Alumni Association.

A Vermont native, Weiler received his bachelor's degree in psychology in 1977 and master's degree in higher education administration in 1979 from the University of Vermont.

Since 1979, Weiler has devoted his career to higher education administration. From 1979 through 1986, he served in several capacities at UCLA in the Dean of Students' Office, including that of associate dean of students. From 1987 to 1989, he served his alma mater by establishing a major gifts program and serving as alumni director during Vermont's first capital campaign.

Since coming to Penn State, Weiler has been active in leadership positions with CASE, and has served as a consultant to several universities in the area of institutional advancement. He has been active on the local level and currently serves on several boards.



Peter Weiler

H&HD honors two as distinguished professors

The College of Health and Human Development recently honored two of its faculty members with the title of distinguished professor. Jay Belsky, an expert on child development and family relationships, has been named distinguished professor of human development. Penny Kris-Etherton, an international authority on human nutrition, has been named distinguished professor of nutrition.

The title of distinguished professor, established by the Office of the President, recognizes a select group of professors with exceptional accomplishments in teaching, research and service.

Belsky joined the Penn State faculty in 1978 after receiving a doctorate in human development and family studies from Cornell University. He is an eminent scholar in the fields of developmental psychology and family studies. Belsky's research focuses on the ecology of early child development.

He has been honored with several awards. His early achievements resulted in the Boyd McCandless Award for Distinguished Early Career Contribution from the American Psychological Association and a Research Scientist Development Award from the National Institute of Mental Health. In addition, he has received an Outstanding Research Achievement Award from the College of Health and Human Development, and a Faculty Scholar Medal for Outstanding Achievement in the social and behavioral sciences.

Since joining the faculty in 1979, Kris-Etherton has developed an innovative research program focusing on the relationship between dietary habits and cardiovascular disease. Because her research considers both the chemical/biological and behavioral aspects of nutrition, it has important implications on the dietary recommendations for humans.

Kris-Etherton is a renowned clinical investigator in the area of dietary lipids and their effects on risk factors for cardiovascular disease. She has been invited to serve on several national advisory committees.

Recently, she accepted an invitation to serve as a member of the Nutrition Study Section, Division of Research Grants for the National Institutes of Health. In addition, she was appointed to serve on the Nutrition Committee of the American Heart Association.

Kris-Etherton has received the Golden Key Award for superior teaching, advising and service to students, was awarded the Evan Pattishall Outstanding Research Achievement Award from the College of Health and Human Development, and has twice received an outstanding service award from the American Dietetic Association.



Jay Belsky



Penny Kris-Etherton

Awards

Dietetic association awards highest honor to associate professor

Sara Clemen Parks, associate professor of hotel, restaurant and recreation management, and associate dean for outreach and international programs for the College of Health and Human Development, has been awarded the Marjorie Hulsizer Copher award by The American Dietetic Association (ADA).

The Copher award is the highest honor given by the ADA. It recognizes a preeminent member who has given years of expertise to the field of dietetics and time and energy to the ADA. The association especially recognizes Parks' "dedication and vision that have helped advance the dietetics profession into the future," and her "outstanding reputation as a mentor and champion of lifelong learning."

Parks, a national leader in dietetics, is a past president of ADA, as well as past president of the American Dietetic Association Foundation, an arm of the association promoting nutrition education to the public. She also has served as president of the foundation's board of directors and as secretary-treasurer of the ADA. A Penn State faculty member since 1971, Parks teaches undergraduate and graduate courses focusing on marketing and strategic planning within the hotel, restaurant and dietetic fields.



Sara Clemen Parks

DuBois Campus names Penn Stater of Quarter

Sherron McGowan, instructor in health education and program coordinator for the physical therapist assistance program at the Penn State DuBois campus, has been named Penn Stater of the Quarter.

The award recognizes, on a quarterly basis, a member of the DuBois Campus family who has rendered particularly noteworthy service to the campus and/or the community.

McGowan was chosen for her work as the leader of the successful physical therapist assistance program and for preparing and conducting the recent accreditation visit by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association, which resulted in the DuBois program being fully accredited.

PENNTAP wins national project of the year award

The University's Pennsylvania Technical Assistance Program (PENNTAP) has received national recognition for its work with Electri-Cord Manufacturing Co. The Outstanding Project of the Year award, presented by the National Association of Management and Technical Assistance Centers, was given to PENNTAP for the valuable assistance it offered to the Westfield, Pa.-manufacturer of power cords in solving a problem that resulted in potential savings of \$780,000.

PENNTAP is directed by Jack Gido. Sal Marisco, an instructor in engineering at the Penn State Wilkes-Barre Campus, and Hal Willis, PENNTAP technical librarian, were instrumental in the project.

McKeesport Campus CEO honored

JoAnne E. Burley, Penn State McKeesport campus executive officer, has been named the first Cecile M. Springer Womanpower Award recipient. The award recognizes an African American woman who demonstrates leadership and social concern.

Cecile M. Springer is known for her trailblazing leadership role in a major Pittsburgh corporation and is trustee emerita of Penn State. She is president of Springer Associates, a consulting firm which provides comprehensive strategic planning services to corporate and nonprofit organizations.

Burley holds a bachelor of science degree in elementary education from Penn State, a master's degree in education from Fairfield University and a doctor of philosophy in language communica-



JoAnne E. Burley

tions from the University of Pittsburgh.

Her research has focused on adult literacy and she heads the Pennsylvania Literacy Corps project at Penn State McKeesport, where college credit is given to students who perform community service as tutors of adults seeking literacy training. Burley trains the student tutors.

Before her appointment as Penn State McKeesport CEO in 1992, she served as assistant vice president for academic affairs and special programs at Chatham College. She is credited with developing the

Chatham College Adult Literacy Program.

Burley has authored many publications and serves on several boards of directors in the Greater Pittsburgh area.

Beaver associate professor earns excellence award

Emma S. Rocco, associate professor of music at the Penn State Beaver Campus, is the recipient of the Beaver Campus Advisory Board's 1996 Award for Excellence in Research. The award is presented annually by the advisory board, which solicits recommendations from Beaver Campus faculty and students.

Rocco, who began teaching at the Beaver Campus in 1967, is a summa cum laude graduate of Duquesne University, where she received a bachelor of science degree in music education and piano performance. She also received a master of fine arts degree in theory and composition from Duquesne University's School of Music, where she was an assistant professor of piano, theory and musicology, and directed several vocal music ensembles. She earned her doctorate in ethnomusicology from the University of Pittsburgh.

In 1990 she wrote a book, *Italian Wind Bands: A*



Emma S. Rocco

Surviving Tradition in the Milltowns of Pennsylvania, which was included in New York's Garland Publishing Company's series *European Immigrants and American Society: A 28-Volume Collection of Studies and Dissertations*.

Rocco has been the recipient of many awards and honors throughout her teaching and performing career, and in 1987 the first endowed scholarship in the history of the Beaver Campus was established in honor of Rocco and her frequent collaborator in campus community theatrical and musical productions, Harvey R. Kelly Jr., assistant professor of speech communication at the campus.

In 1990, Rocco was among the first five inductees of the Beaver Valley Musicians' Hall of Fame, and in 1992, received the Outstanding Teaching Award given by the College of Arts and Architecture.

Assistant professor earns general aviation award

Hubert C. "Skip" Smith, assistant professor of aerospace engineering, is the recipient of the 1996 American Institute of Aeronautics and Astronautics Piper General Aviation Award. The award is presented for outstanding contributions leading to the advancement of general aviation. William T. Piper Sr. made the name "Piper" synonymous with general aviation, and it is in his honor that the Piper General Aviation Award was established.

Smith serves as the director of undergraduate studies in aerospace engineering. He holds bachelor's and master's degrees in aeronautical engineering from Penn State, as well as a Ph.D. from the University of Virginia and a bachelor's degree from Gettysburg College. A pilot since 1952, Smith holds a commercial certificate, instrument rating and flight and ground instructor certificates.



Hubert C. "Skip" Smith

As a faculty member at Penn State since 1968, Smith formulated the course "Aerospace 200, Principles of Aviation," which he taught for a number of years, as well as other aviation ground school courses. In addition, he developed a series of illustrated lectures on aerodynamics and how they impact safety. These lectures have been presented at FAA safety seminars and have served as the basis for his book, *Illustrated Guide to Aerodynamics*. Smith wrote another text, *Introduction to Aircraft Flight Test Engineering*, which has been used by a number of universities for flight laboratory courses.

The American Institute of Aeronautics and Astronautics is the largest professional technical society, principal voice and information resource devoted to the progress of engineering and science in aviation and space.

Scientists discover how molecules turn on genes

By BARBARA K. KENNEDY
Eberly College of Science

Scientists have discovered some of the techniques cells use to control their genes, including processes important in leukemia and other cancers. The research demonstrates, for the first time, that high-powered, promiscuous proteins roam throughout a cell's nucleus. These proteins temporarily join with other molecules to find and turn on specific genes by permanently untangling the tightly knotted structures that prevent them from functioning.

This research concerns a central process in gene regulation — how energy-driven teams of molecules function as chromosome-remodeling machines that unlock the cell's genetic codes," **Jerry L. Workman**, associate professor of molecular and cell biology and the leader of the research group at the University, said.

A chromosome, the gene-containing structure in a cell's nucleus, is one long, rope-like molecule of DNA tangled up with proteins and intricately knotted, twisted and looped into a densely packed structure. Genes are sections of DNA that contain a cell's genetic codes. "All cells contain the same genes but each cell turns on only the particular genes it needs," Workman said.

A gene "turns on" when a transcription enzyme attaches to it and copies its genetic

code, which it then uses to make the cell's proteins and other molecules. The chromosome's dense packaging effectively locks up all the genes by tying them into knots, leaving no place for the transcription enzyme to attach.

The research reveals that a high-powered protein complex apparently untangles a knotted-up gene while other molecules called transcription activators slip in and securely attach themselves to a binding site on the gene. The combination of the temporary disruption caused by the powerful protein complex and the binding action of the transcription activator results in the permanent smoothing out of the previously knotted gene, clearing enough space for the transcription enzyme to attach.

Workman said his research also provides an alternative to the long-standing theory that genes can be turned on only as chromosomes duplicate prior to cell division, when they get pulled apart and their DNA knots untangle briefly. "This study shows that a cell can turn on the genes it needs even after they have been tightly knotted up inside chromosomes," he said.

Authors of this research include **Thomas A. Owen-Hughes**, postdoctoral fellow; **Rhea T. Utley**, graduate student; **Jacques Cote**, postdoctoral fellow; **Craig L. Peterson**, University of Massachusetts associate professor of biochemistry; and Workman. Peterson and Workman are Leukemia Society Scholars.



Jerry L. Workman, associate professor of molecular and cell biology, seated, goes over data from research into the central process in gene regulation.

Photo: Greg Grieco

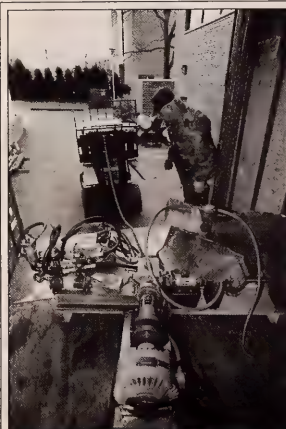
Altering runoff patterns of major waterways could impact ocean circulation

Human alteration of major waterways may cause more problems than drought downstream, according to a geologist who is studying circulation models of the ancient oceans.

"We have already seen some of the consequences of changing surface waterways," **Karen L. Bice**, graduate student in geosciences, said. "The Colorado River barely flows to the ocean and the Aral Sea is drying up. We do have the capacity to alter the amounts of freshwater that run off into the oceans and that could alter ocean circulation patterns."

Bice, **Eric J. Barron**, professor of geosciences and director of Penn State's Earth System Science Center, and **William H. Peterson**, Earth System Science Center, are using a supercomputer-based model to look at the effects of continental runoff on ocean circulation patterns in the early Eocene, about 55 million years ago when the Earth was substantially warmer than it is now.

The reason continental runoff can change ocean circulation patterns is that the fresh water running out of continental rivers decreases the salinity of the oceans' surface. Natural evaporation tends to increase the salinity of the surface water. Circulation in the oceans can be caused by colder water sinking below warmer water or saltier, denser water sinking below less salty water. If runoff stops, new salty areas could form to produce new deep water formation sites.



Jack Zook, a truck driver for Applied Research Laboratory, helps unload equipment from Northwestern University for the Gear Research Institute. The institute has selected the Center for Advanced Drivetrain Technologies at ARL to conduct research for the next three years.

Photo: Greg Grieco

ARL selected for national gear research program

Penn State's National Center for Advanced Drivetrain Technologies has been selected by the Gear Research Institute (GRI) to conduct the institute's program of research and training for the next three years.

GRI selected the Drivetrain Center, a unit of the Applied Research Laboratory, in an informal national competition after the institute's previous base of operations, at Northwestern's Basic Industries Research Laboratory, underwent restructuring. **Suren B. Rao**, director of the Drivetrain Center, will head GRI's Penn State-based activities, which will be known as the Gear Research Group.

GRI will support the Gear Research Group's programs of training and research on gear design, gear materials, gear processing and standards for gear testing. At the conclusion of the three-year period, GRI and the Drivetrain Center will review an option to merge.

The Gear Research Institute is an organization of the American Society of Mechanical Engineers and the American Gear Manufacturers Association. The sponsorship and membership of the GRI is made up of about 40 to 50 aerospace, vehicle and transmission manufacturers, including major corporations such as Boeing, Allied Signal, Ford, Chrysler and GM. Penn State's Drivetrain Center is sponsored primarily by the U.S. Navy Manufacturing Science and Technology Program. Its mission is to support the Navy and the Department of Defense by strengthening, revitalizing and enhancing the technological capabilities of the domestic gear and transmission industry.

WEB BROWSER

Demographic information online

<http://www.olympus.net/okecf/Pubnet/Res-Dem.htm>

Confused by all the conflicting claims about the Internet? This collection of URLs was assembled by the O'Keefe publicity company and includes links to locations such as "CyberAtlas," for beginning demographics research; and "Project 2000," put together by Donna Hoffman and Thomas Novak at Vanderbilt University. There also are a number of other links, such as one that will take you to the results of the Nielsen Internet Survey.

Best Education Sites Today

<http://eyecatchers.com/eyecat/BEST/>

Gail Aumiller, who has taught a course called "Internet in the Classroom" at the Penn State Mont Alto Campus, passed this along to us.

B.E.S.T. (Best Education Sites Today) has more than 10,000 URLs (a total that is growing daily) in its database. Search by keyword or by the topic list, or browse the awards for extensive reviews of the hottest education sites of the month.

Here are just a few of the categories:

- Educational Conferences
- Educational Grants
- Museums
- Search Engines
- Subjects
- Arts (fine, music, theater)
- Language Arts
- Literature
- Math
- Philosophy
- Social Sciences
- Technology
- Teacher's Home Pages

If you know of an unusual or particularly innovative use of the Web, please send the URL to dus9@psu.edu.

Nominations due Jan. 10

Nominations for the 1997 Faculty and Staff Achievement Awards will be accepted until Jan. 10. (For a full listing of the awards, please see page 8 of the Nov. 21 issue of *Intercom*.) Nominations are encouraged from the University and local community organizations and individuals.

A general committee, chaired by Billie S. Willis, has been appointed to review nominations. Five subcommittees will screen nominations and develop recommendations for the respective awards. For a listing of committee members, please log-in to the Office of Human Resources Web site at URL: <http://www.ohr.psu.edu>.

Nominators should contact the Office of Human Resources at (814) 863-6188 to request a copy of a standardized nomination form. Send nominations to Billie S. Willis, Box 6, Rider Building.

Leaps in science



Scientist discover smallest frog

This tiny Cuban frog is sitting on a Cuban 10-cent coin (about the size of a U.S. nickel) and is the smallest frog in the Northern Hemisphere. The orange and black-striped creature, about one centimeter long, was recently discovered by a team of biologists from Cuba and Penn State that included S. Blair Hedges, professor of biology in the Eberly College of Science. Hedges and Cuban scientist Alberto R. Estrada say the frog is in the genus *Eleutherodactylus* which in print is more than three times as long as the frog itself. This newly found frog is tied for the world record with the smallest frog in the Southern Hemisphere.

Videoconferencing session on Dec. 16 will connect campuses for discussion of University's strategic plans

Members of the University Planning Council will be available through the PictureTel videoconferencing system to discuss the five-year strategic planning process with faculty and staff at the Commonwealth Campuses.

The PictureTel session, scheduled for 8 to 9:30 a.m. Monday, Dec. 16, will include UPC members William Asbury, Karen Sandler and Scott Kretzmar. This session is in addition to dozens of open meetings members of the UPC have been conducting at University Park and other campuses during recent weeks. The council consists of faculty, staff, students and deans and is chaired by John A. Brighton, executive vice president and provost.

Council members will brief videoconference partici-

pants on the activities of the UPC during the past year, including current issues the group is considering. They will answer questions about the strategic planning process and are interested in hearing comments and suggestions from faculty and staff.

Campuses planning to take part in this videoconferencing session include Abington-Ogontz, Beaver, Delaware, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Schuylkill, Shenango, Wilkes-Barre, Worthington Scranton and York.

The council continues to accept comments and suggestions about the strategic planning process through e-mail, at Response@PSU.EDU.

PENNSTATE INTERCOM

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Cooperative Extension, C&DE continue move toward restructuring

By LISA M. ROSELLINI
Public Information

While most of us were hurrying to finish year-end business in December, groundwork continued to be quietly laid for profound changes to one of

the University's most enduring ventures.

For the past six months, University administrators have logged more than 100 hours of meetings with both internal and external groups to design a better system for delivering research

findings, educating Pennsylvanians and aiding the state's residents and its economy. Since the announcement last August that Cooperative Extension will be enhanced as part of a major University-wide effort to

See "Restructuring" on page 3

University joins national fight against illiteracy

President Graham B. Spanier and 19 other college presidents across the country have pledged their support for "America Reads," President Clinton's campaign against illiteracy.

As part of the anti-illiteracy program, the 20 college and university presidents have agreed to dedicate half their new federally funded work-study slots to students who will work as reading tutors for young children. The program's overall goal is to enlist a million volunteer tutors to teach students to read.

Spanier said he was pleased the White House approached Penn State about supporting the campaign.

"Penn State's great advantage in mobilizing students to tutor children in reading is our system of 23 locations, which allows us to reach into virtually every corner of the state," Spanier said. "We will do as much as we can to make the program work, by allocating the work-study funds throughout the Penn State system and by giving some greater emphasis to our campuses near the state's major metropolitan areas."

The program is funded by entirely new funds that will come to Penn State from the federal government. In addition, the normal matching requirement has been waived for this program," he said. "Under these circumstances, this is a great opportunity for Penn State."

In October, Clinton said he hoped that up to half of the \$213 million increase in work-study funds appropriated by Congress for fiscal year 1997 would support the literacy program. Last month, in one of his

See "Illiteracy" on page 13

Things are really cooking now

By ANDREA HURLEY
Special to Intercom

At 4:30 a.m. in the early morning darkness, while the University is quiet and still, Heather Hobert, assistant pastry chef at the Penn State Bakery on Bigler Road on the University Park Campus, begins her day. Joined by bakery manager Reed Stouffer at 5:30 a.m. and pastry chef Lee Ann Lambert at 8 a.m., the three begin the ominous task of providing fresh bakery products to a campus the size of a small city.

The bakery's 15 full-time employees are gearing up for the return this week of students from semester break. The ovens are roaring, mixers are whirling, pie crust is being kneaded and cookies are baking. In addition to the ever-popular chocolate chip cookie, the bakery also makes almond, Heath bar, sugar, M&M, oatmeal raisin, macaroon, snickerdoodle, peanut butter and chocolate peanut butter chip, to name a few. Each year the University consumes nearly 90,000 dozen cookies of various sizes and flavors. But cookies are just the icing on the cake, so to speak.

The bakery also produces bread, rolls, croissants, cakes, doughnuts, cheesecakes, rice krispie treats and chocolate mountains... that's right, chocolate mountains. Fall semester proved to be a challenge for Lambert when she was



Letting them eat cake

Helen Rusnak (left) and Vicki Weston, bakery assistants, share a laugh as they work assembling orange mousse cake and chocolate crumb crust for hundreds of hungry students.

Photo: Andrea Hurley

asked to produce a chocolate mountain for the dining hall's chocolate week. Not only did she design and produce the mountain, but a local railroad club ran a train through it, proving that there is nothing you can't do with chocolate.

It may come as no surprise, but according to Stouffer, football season is his most difficult time of year. Along with thousands of hungry students heading for the dining halls, the crowd in Beaver Stadium manages to consume a lion's share of bakery products as well. Stouffer said that student

See "Bakery" on page 2

Inside **GLAD you asked**

New column debuts

A new column that lets you, the reader, ask questions is being launched with this first issue of 1997. To see what's been on the minds of your co-workers, please turn to page 2.



Muddy water

Researcher Albert R. Jarrett (left) is studying how sediment basins filter silt in an effort to devise a better sediment removal method. See page 19 for details.

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GLAD you asked

Welcome to the first column of "Glad You Asked"—a place where *Intercom* readers can ask a variety of questions and receive answers from those in charge. In November, we asked for your most pressing questions and received a lukewarm response. We hope the number of questions will grow over the coming months and that this column will become one of *Intercom's* most popular sections. After receiving your questions via e-mail, the *Intercom* staff directed them to the proper sources for quick and accurate responses.

If you have a question, don't be shy. Simply e-mail it to ask@psu.edu and we'll work to get you an answer.

Q. Why doesn't the *Intercom* encourage and print contributions by faculty and staff about internal University controversies and issues? The *Centre Daily Times* often prints such contributions.

—T.B.
University Park

A. T.B., I'm glad you asked. It just so happens that the *Intercom* is working in this direction. Coming this semester, the *Intercom* plans to launch an online Web version of a "Letters to the Editor" section, in which faculty and staff views can be read at its Web site. A hot "button" at the site will allow readers to submit their opinions. Since we have only one person to maintain our Web site every week, the timeframe for this project is not firm, but we hope that by the end of February you can begin reading some lively discourse, courtesy of the *Intercom*. In addition, plans for a letters column in the regular paper version of *Intercom* are also being mapped out. We look forward to hearing from you again!

—Lisa M. Rosellini
Editor

Q. Why doesn't Penn State offer benefits to same-sex partners of faculty/staff?

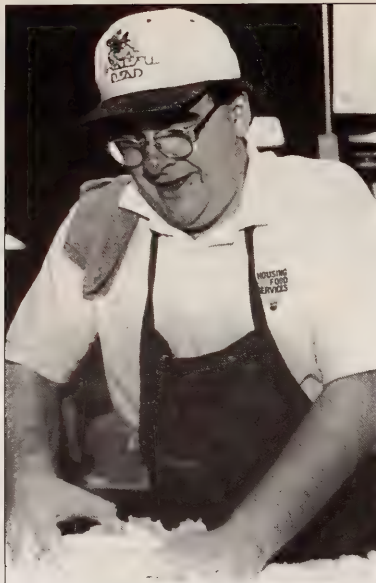
—D.S.
University Park

A. The Office of Human Resources has continued to examine the University's employee benefits programs, including the extension of health care benefits to same-sex domestic partners. Benefit program changes occur for a number of reasons, such as modification that would benefit many faculty and staff, change that would support new medical technology and procedures and, to some extent, change needed to support the budget.

At this point, the University hasn't determined a need for change as it relates to benefits for same-sex domestic partners. However, the OHR is working with a representative from the Commission on Lesbian, Gay and Bisexual Equity to identify other ways that such support may be made available.

—Billie S. Willis
assistant vice president for Human Resources

ask@psu.edu •



That's a lot of dough!

Kris Patterson "gets into his work" kneading pie crust. One tray of dough will yield 160 crusts — enough for 80 pies.

Photo: Andrea Hurlay

PENN STATE BAKERY TIDBITS

- Did you know that in one year the Penn State Bakery uses:
2,250 pounds of chocolate chips
170,800 pounds of flour
15,000 pounds of liquid eggs
36,000 raw whole eggs
1,470 pounds of peanut butter



- The bakery's most unusual product request:
A chocolate mountain
- The bakery's most demanding and challenging task:
Dessert for the re-opening of the Palmer Museum: 300 vertical desserts with an architectural motif.
- The bakery's signature item:
The chocolate-dipped cookie-on-a-stick.

Source: Penn State Bakery Manager Reed Stouffer

Obituaries

Marietta L. Criseman, administrative aide in the College of Engineering, from July 1, 1969, until her retirement June 30, 1983; died Nov. 27 at the age of 76. She was a 1937 graduate of Bellefonte High School and a member of the First Presbyterian Church in Bellefonte and on the church's board of trustees.

Martha G. Files, who worked at the Creamery and later as a clerk at Pattee Library before retiring in 1990 after 24 years of service to the University, died Jan. 1. She was 69 and a 1949 graduate of State College Area High School and a 1953 graduate of Penn State with a bachelor of science degree in nutrition.

Richard H. Korman, carpenter in the Office of the Physical Plant, from Oct. 19, 1981, until his retirement March 9, 1996; died Dec. 4. He was 60.

Jaclynn A. Livella, staff assistant V in the College of Engineering, from Aug. 15, 1984, until her death Nov. 24. She was 41.

Magdalen Mathews Meredith, who worked for Housing and Food Services before retiring in 1968, died Dec. 9 at her residence. She was 82. She was a member of Our Lady of Victory Catholic Church in State College.

Miriam Miller, nutrition adviser in the College of Agricultural Sciences, from March 12, 1973, until her retirement Oct. 1, 1988; died Dec. 2 at the age of 66.

Margaret E. Mills, nutrition aide in the College of Agricultural Sciences, from Feb. 15, 1971, until her retirement July 1, 1986; died Nov. 16. She was 80.

Bakery

continued from page 1

demand takes a nosedive in spring semester, which he attributes to pre-spring break dieting. Cultural events take up the slack and there is no true break in bakery action until May. With warmer weather comes sports camps, Pennsylvania Special Olympics and the Central Pennsylvania Festival of the Arts. These events, combined with demand from the Nittany Lion Inn, The Bryce Jordan Center and The Penn State Scenic, ensure a busy bakery year-round.

The bakery also is part of the educational process for chefs from the Culinary Institute of America in Hyde Park, N.Y. As host to chefs from the institute, the bakery offers a one-week program in skills, theories and goods handling. The chefs leave Penn State with the knowledge of how smoothly a well-organized, high-volume operation can run.

Stouffer and Lambert are quick to credit bakery employees for the success of the day-to-day operation, not to mention its high-quality product. The bakery is part of Housing and Food Services.

"We have a reputation across campus for working hard. Our people are self-motivated, hardworking people who take pride," Lambert said. "Without them, we couldn't do what we do."

"A lot of people don't even realize we are out here," Stouffer added. They both agree that the bakery is as much a service as a business. Because of all the effort that goes into producing these delectable desserts, Lambert feels that the students are the big winners. They can have their cake and eat it too.

Restructuring

continued from page 1



All in a day's work

John Schwartz, Lancaster County extension director, looks over an egg washing machine with farmer Paul Wolgemuth to help him determine how to more efficiently run his chicken operation.

Photo: Steve Williams

strengthen its outreach services to the millions of people it serves. University leaders have been working to devise a comprehensive plan to make it happen.

Beginning this year, Penn State's Cooperative Extension will undergo some significant changes. With more than 75 years of outreach experience under its belt, Cooperative Extension will now find itself with a new director, new resources and additional support from throughout the University. Currently an internal search is under way for a director of Cooperative Extension (see box at right).

The changes planned are intended to augment Cooperative Extension's role and join it to other colleges and outreach units of the University so that research and expertise from throughout the University can find their way into the general population and be more easily used. This organizational restructuring which includes a coordination of services with Continuing and Distance Education, as well as other units within the University—should result in several advantages for both Pennsylvanians and Penn State.

"This restructuring will open up new opportunities for faculty members and will provide an expanded vehicle for research dissemination," James Ryan, newly named vice president for Outreach and Cooperative Extension, said. Ryan, whose former title was vice president for Continuing and Distance Education, will help oversee the endeavor along with the dean of the College of Agricultural Sciences. There is currently an external search being conducted to fill the open dean's post.

"For the University, it is a model that will enhance knowledge application, identify new research opportunities, help develop networks for support, enrich teaching, provide opportunities for undergraduates and graduate students, and provide increased visibility for faculty mem-

bers, departments and the University as a whole," Ryan said.

For the Commonwealth, an increased focus on outreach and service will mean that the state's No. 1 industry, agriculture, will remain a priority, and Penn State will continue to support Pennsylvania's many agriculture-related industries—like the multi-billion dollar food industry—through research and education programs. Tapping into other areas of expertise across the University will also mean that Outreach and Cooperative Extension can provide more firms with solutions to complex manufacturing problems and help them to retrain and retain more workers. It will provide better access to emerging technology, and better support youths, family and community development throughout Pennsylvania.

This expanded focus on aiding Pennsylvania and the nation through outreach ventures also means that in an era when the general public and government officials are calling for higher education to help answer society's pressing problems, Penn State will be in the forefront. This commitment to improving the quality of life in the state could translate into increased support from the state and its taxpayers.

"Cooperative Extension is a great success story and a wonderful model for us to build upon," Theodore Alter, interim dean of the College of Agricultural Sciences, said. "This new effort is designed to develop a partnership among Cooperative Extension and Continuing and Distance Education that will allow more faculty and staff to become involved in delivering educational programs and services to the public. Penn State has one of the most successful outreach operations in the country, but we want to be even more responsive to society's needs and have an even greater impact."

Some building blocks of the plan

Need more?

For more information on the changes, background, a Q&A or an update on the plan, get to the Web at URL:
<http://www.cde.psu.edu/Outreach>
or <http://www.cas.psu.edu>.

Internal search for director is under way

Historically, the dean of the College of Agricultural Sciences has directed extension efforts, but the increasing emphasis on service and outreach and the move to encompass more facets of the University means the endeavor requires separate leadership, according to James Ryan, vice president for Outreach and Cooperative Extension. The new director will also serve as an associate dean in the College of Agricultural Sciences.

The search committee, which will be overseen by O. Elwood Hatley, professor of agronomy in the College of Agricultural Sciences, has recently been named and includes these members: Cheryl Achterberg, professor of nutrition, College of Health and Human Development; William Asbury, vice president for student affairs; Craig A. Bernecker, associate professor of architectural engineering, College of Engineering; Patricia A. Book, associate vice president and associate dean, Continuing and Distance Education; Blannie E. Bowen, associate dean for graduate programs; Michael Martin, county extension director, Luzerne County; Robert E. Nicely, associate dean for outreach and faculty development, College of Education; David T. Rynd, acting regional director, Cooperative Extension; Aletha M. Schadler, county extension director, Lebanon County; Elwin L. Stewart, professor and head, Department of Plant Pathology, College of Agricultural Sciences; and Tami Torquato, staff assistant, Cooperative Extension.

Anyone interested in applying for the position, should contact a member of the search committee.

include, not only a new director, but also:

- Greater support, recognition and reward for faculty and staff engaged in outreach;
- Involvement of more academic and administrative units in the outreach mission;
- Development of new partnerships across colleges and campuses with agencies and others outside the state, such as foundations and corporations;
- Creation of councils for Outreach and Cooperative Extension; and
- A title change for the assistant/associate dean for Continuing and Distance Education in each college to reflect the new organizational structure for Outreach and Cooperative Extension.

Ryan admits that much of the foundation for the reorganization that has so far been put into place is not

readily apparent. It's been a lot of what he calls "process."

"We needed to consult with the people involved," he said. "We have talked with clients, faculty and extension staff. We have talked with any stakeholder who had opinions to share. We have gathered dozens and dozens of suggestions; we have benchmarked with other Universities."

While we are trying to learn from others, the size and uniqueness of Penn State means that we must mold something that is developed specifically for us.

"The beauty of this process is that it is being built by the people who are involved and affected," he said. "Naturally there is concern about change. There is always concern about change. People want to know just how they will be affected."

Ryan said that while many programs will not change, some will receive additional support. He also said that both Cooperative Extension and Continuing and Distance Education programs will be analyzed for unnecessary duplication of services and, while some realignment or redefinition of positions may occur, a reduction in the number of employees in either area is not anticipated.

"The plan is actually designed to enhance human resource capacity in program areas of most pressing need," Ryan said. "All of the University's programs, however, require continued public-funding support in order to remain fully functional."

According to Ryan, there are nearly 1,000 faculty members (about 25 percent of all Penn State faculty) who are engaged in outreach activities across the state. In total, Penn State's outreach and service efforts—which include Cooperative Extension, Continuing and Distance Education, Research and Technology Transfer Organization and specialized centers, including the Hershey Medical Center—serve half of Pennsylvania's nearly 11.9 million population.

"Right now, we're just working through the fundamentals of this plan, but this is a necessary first step to realizing the president's vision of becoming the best university in the world in the integration of teaching, research, and service."

The University community will know more later in February about how the reorganization will look and work. That's when the operational plan will be final, Ryan said. On February 20-21, Spanier, Ryan, Alter and others who are helping pioneer this change will hold a meeting at The Penn State Scanlon with the leadership of the units involved to discuss the pending changes.

■ Remembering Martin Luther King Jr.

Activities to mark his day planned University-wide

Several events are planned to commemorate slain civil rights leader Martin Luther King Jr.'s birthday. King's birthday is today; the official observance is Monday, Jan. 20. Here is a listing of the events planned:

■ Allentown Campus

- Film - "Martin Luther King: A Man of Peace," plus poetry readings by faculty, students and staff: noon on Monday, Jan. 20, in rooms 111-546
- Wednesday, Jan. 22, and Friday, Jan. 24, at noon: Two films from the series "Eyes on the Prize"

■ Altoona Campus

Yolanda King, the eldest daughter of Dr. Martin Luther King Jr. and Coretta Scott King, will visit the State-Altoona Campus at 3:30 p.m. Sunday, Jan. 19, to answer the question "Is Martin Luther King's Dream Alive in 1997?" Currently serving as a visiting professor at Fordham University's Theatre Department in New York City, Yolanda King has worked with a number of human rights organizations and causes and is committed to using her talents to affect social and personal change through the arts. Her talk will be held in the Community Arts Center.

■ Berks Campus

- Monday, Jan. 20: A lecture, "What Has Happened to the Dream When the Dreamer Is No Longer with Us?" presented by **Bryan H. Barrows III**, Prairie View A&M University's public information director, at 1 p.m. in the Perkins Student Center. In this one-man show, Barrows portrays a grandfather who is appalled to learn his grandson doesn't know who Dr. Martin Luther King Jr. was. He decides that it is his duty to educate the boy — and the audience. The performance includes King's famous "I Have a Dream" speech.
- Monday, Jan. 20: Berks Campus and Albright College in Reading are co-sponsoring the internationally acclaimed Louisiana Repertory Jazz Ensemble, which will perform at Albright College at 7 p.m. in Memorial Chapel.
- Wednesday, Jan. 22: Pin Points Theatre Company Presents "The Meeting" at 1 p.m. in the Perkins Student Center. What would have happened if Dr. Martin Luther King Jr. and Malcolm X were locked in a hotel room together for an hour? Witness this fictitious confrontation in the award-winning production of "The Meeting" by Jeff Stetson. Admission is \$3 for adults, \$2 for students and senior citizens. The performance is free to Penn State students, faculty and staff.

■ DuBois Campus

- Month of January: Dedicated as community service month in honor of Dr. Martin Luther King Jr.'s activities include:
 - Through Jan. 31: Penny Drive for the Leukemia Society
 - Monday, Jan. 20: Dr. Martin Luther King Jr. Commemorative Ceremony in the Hiller Auditorium at noon. Included will be a reading of Dr. King's famous "I Have a Dream" speech, followed by messages from various student government and student organization leaders
 - Wednesday, Jan. 22: Movie: "Malcolm X," at 7:30 p.m., Hiller Auditorium. Admission is free.
 - Friday, Jan. 24: Campus Clean-Up Day
 - Wednesday, Jan. 29: Pinpoints Theatre-Black History presentation, 7:30 p.m., Hiller Auditorium. Open to the public.
 - Friday, Jan. 31: DuBois Nursing Home Visit, 2:30-3 p.m.

■ Mont Alto Campus

- Monday, Jan. 20: Candlelight vigil from the Emmanuel Chapel to the auditorium, 7 p.m. Following the procession, African American poet **Gillie Hayes Joseph** will address the campus community in the auditorium, General Studies Building.
- Tuesday, Jan. 21: Blues artist **K.J. James** performs at 8 p.m. in the Game Room, Conklin Hall.
- Thursday, Jan. 23: The Pin Points Theatre of Washington, D.C., will present "The Meeting," at 8 p.m. in the auditorium, General Studies Building. Contact **Laura Frome**, (717) 749-6112, for more information.

■ New Kensington Campus

- Friday, Jan. 17: Penn State New Kensington, in conjunction with the Multicultural Club of Valley High School, will host a musical program at 7 p.m. in the Valley High School

auditorium. The program will feature two choirs: "Voices of Joy," Indiana University of Pennsylvania; and "W.A.M.O. Gospel Choir," Pittsburgh. An excerpt from King's "I Have a Dream" speech will be read and the Penn State New Kensington Multicultural Club will perform a skit dramatizing Rosa Parks' courageous protest of racial discrimination. The event is free. For more information, contact **Angela Fisher** at (412) 339-5405.

- Monday, Jan. 20, at noon in the Theatre Lobby: Free birthday cake and punch will be provided for students, faculty and staff.

■ Pennsylvania College of Technology

— Monday, Jan. 20, in Penn's Inn: Nontime celebration featuring a documentary and a student recital of King's "I Have a Dream" speech. This event kicks off an African American History Celebration which runs through Feb. 27 and features 14 other cultural events including performances by an African-Caribbean dance group, Women of the Calabash, and blues singer **K.J. James**. Also on tap are theatre performances, an African Heritage Fashion Show and "Gospel-O-Rama" featuring local gospel choirs.

■ Penn State Erie, The Behrend College

- Monday, Jan. 20: The fourth annual "Family Breakfast" will be held at 7:30 a.m. in the Dobbins Hall Gazebo. At 4 p.m. all offices and classes will be relocated to the Reed Union Building Commons for a campus-wide birthday celebration. This year's theme, "Dear Dr. King," will include the reading of a dozen letters written to Dr. King by faculty, staff and students. During this celebration, the St. James A.M.E. Church Male Chorus will perform; a reception will follow. The day will conclude with a lecture by **Robert D. Bullard**, director of the Environmental Justice Resource Center at Clark Atlanta University and an outspoken critic of environmental racism, on "Dumping in Dixie: Race, Class and Environmental Quality," at 7:30 p.m. in the Reed Union Building Commons.

■ Penn State Harrisburg

What would have happened if Malcolm X and Martin Luther King Jr. had been together before they were assassinated just three years apart? This intriguing idea is the subject of "The Meeting," a powerful drama about the lives, philosophies and times of Dr. King and Malcolm X. Penn State Harrisburg will host this free play on Monday, Jan. 20, at noon in the Gallery Lounge on campus.

■ Schuylkill Campus

- Wednesday, Jan. 22: "The Meeting," presented by Pin Points Theatre Company of Washington, D.C., at 7:30 p.m. in the John E. Morgan Auditorium of the Student-Community Center. Event is free to the public.

■ Shenango Campus

- Monday, Jan. 20: Noon in the Forum (in Forker Laboratory), speaker **Rev. Thomas J. Bolling**, pastor Second Baptist Church, Farrell, Pa., and soloist: **Tamara Robinson**, Student Affairs office.
- Throughout the week, a photo display of King memorabilia. In addition, books on the life and work of Dr. Martin Luther King Jr. will be on reserve in the campus library.

■ University Park

- Three exhibits on campus
 - "Martin Luther King Jr. at Penn State: The Struggle for Equality," through Feb. 1 in the main lobby, Pattee Library
 - "The Life of Dr. King" in drawings and paintings by **Samuel Benson**, at the Paul Robeson Center through Saturday, Feb. 1
 - "Memories of Childhood," an exhibit of how 15 ethnically diverse artists portray their childhood, in the HUB Formal Gallery
- Other activities:
 - Friday, Jan. 17: Martin Luther King Jr. Dinner Forum on Black Affairs sponsors dinner at 6:30 p.m. in The Penn State Scanticon Presidents Hall. Tickets are on sale at the Paul Robeson Cultural Center at \$65 a public ticket, Jan. 19. Artist **Samuel Benson** will give a lecture on his paintings and drawings of the life of Dr. King at 3 p.m. in the Paul Robeson Cultural Center, with a reception immediately following.

- Monday, Jan. 20: "Sharing the Dream: Living the Reality," a free dramatic presentation written and directed by **Charles Dumas**, associate professor of theatre arts, will be performed at 7:30 p.m. in Eisenhower Auditorium.

- Thursday, Jan. 30: Student Volunteer Fair from 11 a.m. to 3 p.m. in the HUB Ballroom, where students can meet representatives of 50 local human service agencies and organizations. Contact **Melissa Frank Alston**, program director for the Office of Volunteer Programs and Services at 863-4624.

- Thursday, Jan. 30: Students Work for Community Service. More than 100 students from 11 student organizations have signed up to volunteer for community service projects at several locations throughout the region. Contact **Alston** at 863-4624.

- Thursday, Jan. 31: Student Involvement Fair from noon to 6 p.m. in the HUB Ballroom. About 145 student and department organizations are expected to participate and provide information on their activities and speak to potential new members. Contact **Alston** at 863-4624.

■ Worthington Scranton Campus

- Monday, Jan. 20: The Penn State Worthington Scranton Campus Cultural Events Series will feature a performance of "The Meeting" by Pin Points Theatre at 7:30 p.m. in the Campus Study Learning Center. The program, a historical drama about the lives, philosophies and times of Dr. Martin Luther King Jr. and Malcolm X, is open to the public. For more information call 963-4311.
- Friday, Jan. 31: Penn State Worthington Scranton Campus Student Activities is sponsoring "Unity through Music," a free program combining lecture and music relating to cultural and ethnic diversity at noon in the Study Learning Center.

■ Penn State Great Valley

- Monday, Jan. 20: From 4-6 p.m. in the Main Lobby, Gospel Witnesses will perform. The group consists of three singers with keyboard and bass guitarist.
- Tuesday, Jan. 21: **Dane Tighman**, premiere painter of African American golf art and Negro League baseball images, from 4-6 p.m. in the Main Lobby.
- Wednesday, Jan. 22: Photographic history following Martin Luther King's vision for equality and human dignity, all day, Main Lobby.
- Thursday, Jan. 23: **Doris McGillan**, local doll maker known for her authentic African American dolls, from 4-6 p.m. in the Main Lobby.
- Friday, Jan. 24: **Yolanda King**, daughter of Martin Luther King Jr., speaks on "The Dream Deferred" from 12 p.m., Room 130-131. Private luncheon at noon by reservation only.

■ WPX, Channel 3

Penn State's PBS station, WPX, Channel 3, is presenting a series of "Take Note" programs that highlight the activities planned on the University Park Campus in celebration of Martin Luther King Jr. and looks at the impact of Dr. King. Hosted by **Patty Satalia**, the remaining special programs follow:

- 5:45 p.m. Thursday, Jan. 16, "Sharing The Dream" — Guest **Charles Dumas**, author of the play "Sharing The Dream: Living The Reality," talks about his play which will be performed the evening of Jan. 20 at Eisenhower Auditorium.

- 5:45 p.m. Monday, Jan. 20: "Martin Luther King Jr. Remembered" — Guest **Tom Poole**, acting deputy vice provost for educational equity, speaks about the impact King had in society.

■ York Campus

- Monday, Jan. 20: Nontime tribute "Remembering the Dream," Community Room, Student Center. The Rev. **William Curtis**, Shiloh Baptist Church, will share his thoughts on Dr. King and his work.



Stoking the fire

Jeff Seymour, boiler operator at the power plant on the University Park Campus, checks a boiler. He and others at the plant are making sure everything's fully stocked and in working order to keep buildings warm this winter.

Photo: Greg Grieco

BOOK SHELF

Stephen J. Cimbala, professor of political science at the Delaware County Campus, is the author of *The Politics of Warfare: The Great Powers in the Twentieth Century*, published by Penn State Press.

The book deals with the relationship between war and politics in the 20th century, with a special emphasis on intelligence wars, low-intensity conflicts, cyber wars and nuclear-crisis management.

The Politics of Warfare is divided into two parts. In the first part, Cimbala examines the relationship between policy and war in major 20th-century conflicts before the end of the Cold War. The second part covers the Gulf War, intelligence, special operations and low-intensity conflict as aspects of the new world order. A separate chapter on nuclear weapons and strategy focuses mostly on the Cold War period but also looks at the proliferation of nuclear arms in the post-Cold War era. The concluding chapter gives an overall assessment, including cautionary notes about the future of U.S. armed forces and military policy.

Rangachar Kasturi, professor of computer science and engineer-

ing, is the co-editor of *Graphics Recognition; Methods and Applications*, Volume 1072 of Lecture Notes in Computer Science, published by Springer. This book is a collection of papers from The First International Workshop on Graphics Recognition held at Penn State in August 1995. The 308-page book was co-edited by **Karl Tombre**, researcher in France for the INRIA Organization. This collection of papers from researchers across the globe looks at progress in graphics recognition, a subfield of document image analysis. Document image analysis involves optical character recognition, the analysis of physical and logical structures of scanned documents and, more generally, the interpretation of the document's contents.

Iam-Choon Khoo, professor of electrical engineering, has co-edited *Novel Optical Materials and Applications*, published by Wiley Interscience, with **Francesco Simoni** of the University of Ancona and **Cesare Umeton** of the University of Calabria.

This reference book covers the physical, optical and electronic

characteristics of novel optical materials for applications in optical communication, signal and image processing and information storage. It offers an up-to-date treatment of the major classes of these materials and their applications in nonlinear optics, integrated optics and electro-optics devices and systems with contributions from leading authorities in virtually every subdiscipline of the field.

James Levin, associate professor in the Graduate School, and **John Shanken-Kaye**, instructor in the Department of Continuing and Distance Education, are co-authors of the book *The Self-Control Classroom: Understanding and Managing the Disruptive Behavior of all Students Including Students with ADHD* (Kendall/Hunt: Dubuque, Iowa).

The Self-Control Classroom describes a highly effective classroom management system for all students which does not rely upon rewards and coercion, encourages intrinsic motivation, greatly decreases disruptive behavior and promotes long-term change. The book treats teachers as highly skilled decision makers who, if given the "whys" behind disruptive student behavior, are quite capable of designing the "hows" of effective interventions in the classroom. Levin is a former secondary school teacher of science and mathematics, while Shanken-Kaye is currently therapist for the Bucks County Juvenile Court.

Rhodes Scholar plays active role in school and her community

Tess Thompson of Boalsburg, Pa., a 20-year-old senior and English major at University Park, was named Penn State's first-ever Rhodes Scholar in December.

The daughter of Donald and Melody Thompson, she is one of 32 Americans named to the 1997 class of Rhodes Scholars at Oxford University. Her father is an associate professor of food science and head of the food science department



Tess Thompson

in the College of Agricultural Sciences and her mother is publications editor for the American Center for the Study of Distance Education at University Park.

Thompson is described by those who know her as outstanding, mega-bright, hard-working and motivated. She has won several writing awards for fiction and poetry, including *Seventeen* magazine's national fiction contest in 1995. In addition to acting, ballet and preparing high school students to take the Scholastic Assessment Test, her many other activities have included:

- helping to organize the "Take Back the Night" rallies at the University Park Campus;
- volunteering at the University's Women's Resource Center;
- tutoring in the English as a Second Language program; and
- writing a column for the *Daily Collegian*, Penn State's independent student newspaper.

Thompson will graduate from Penn State this semester. Starting in October 1997, she'll study English language and literature at Oxford. She plans to be a writer and teacher.

Rhodes scholarships were established at the turn of the century by the estate of Cecil Rhodes, a British philanthropist and colonialist. Winners receive scholarships to Oxford University in England. Besides tuition, the scholarships pay for living expenses and transportation. The competition was first opened to women in 1976.

The winners were announced Dec. 7 by the Rhodes Scholarship Trust at Pomona College in Claremont, Calif., near Los Angeles.

ARL signs five-year contract with U.S. Navy

The Applied Research Laboratory in December signed a new five-year contract with the Navy which budgets \$65 million for the first year, with options for four additional years of support, up to a total of \$330 million. The funds will be administered by the Naval Sea Systems Command.

The \$330 million has been earmarked for research in five "essential capability" areas including guidance and control of undersea vehicles, thermal power systems, hydrodynamics and hydroacoustics, manufacturing materials and communications.

L. Raymond Hettche, ARL director and professor of engineering research, said that in the current era

of "downsizing," the contract is a reaffirmation of the Navy's intent to keep ARL viable at Penn State.

ARL, the largest of Penn State's interdisciplinary research programs, has had continuous Navy funding since it was established by the Navy in 1945. The new contract is the fourth that Hettche has negotiated with the Navy since he became director of ARL in 1981. An internationally recognized research center for undersea science and technology, ARL contributes to the educational objectives and research goals of the University through graduate and undergraduate thesis supervision and teaching, through support of collaborative research and sharing of research facilities.

On average, ARL has supported about 90 graduate students with full research assistantships and 40 undergraduates each year for the past 15 years.

The laboratory was instrumental in establishing and supporting the graduate program in acoustics and Penn State's first satellite-delivered degree program, the master of engineering degree in acoustics, a national award winner in distance learning.

Within the last five years, ARL has performed research for 65 industrial sponsors and an additional 17 nonprofit organizations. About one-third of the industrial sponsors were Pennsylvania corporations.

Spanier to serve on NCAA board

President Graham B. Spanier has been appointed by the presidents of Big Ten universities to serve on the NCAA's Board of Directors. Spanier will be among 15 university presidents nationwide who will constitute the board, which beginning in August becomes the body that oversees the policies and operations of the NCAA Division I schools.

Spanier also will join the NCAA Presidents Commission in January, which will exist only for the few months until the new governance body is launched. Spanier's term on the Presidents Commission will run through January 2000. Spanier served on the Presidents Commission in 1995 as the Big 8 representative.

The president anticipates that under the new governance model, the board will look carefully at the structure, budget and policies of the NCAA. He predicts changes are likely.

The NCAA, the National Collegiate Athletic Association, is a membership organization of universities and colleges that participate in intercollegiate athletics. The primary purpose of the NCAA is to maintain intercollegiate athletics as an integral part of the student body. Activities of the NCAA membership include formulating rules of play for NCAA sports, conducting national championships, adopting and enforcing standards of eligibility and studying all phases of intercollegiate athletics.

Penn State is part of NCAA's Division I-A.

Versatile venue nominated for three awards

The Bryce Jordan Center has received four nominations for annual awards from three of the concert industry's leading publications, putting the center in the company of facilities like America West Arena in Phoenix, home of the NBA's Phoenix Suns, and Disney's Arrowhead Pond of Anaheim in Anaheim, Calif.

Leading the list is *Pollstar Magazine's* 1996 Arena Of The Year Award. This nomination is a reflection of the best facilities in the nation in the eyes of a diverse group of major agents, managers, promoters and industry professionals. Nominations are based on a combination of ticket sales and the nominator's feelings toward the quality of each facility's amenities and services.

Performance Magazine has also nominated the Jordan Center for New Venue of the Year and Arena of the Year in its size category. The Jordan Center is among six new facilities nominated for the honor this year. *Performance Award*



Performance Magazine's mid-year charts.

The center has been host to 31 touring shows averaging 10,000 people at every performance, with such entertainers as The Eagles, Rod Stewart, Reba McEntire, George Strait, Dave Matthews Band and Phish and family shows like the Harlem Globetrotters, David Copperfield and the World Gold Gymnastics tour. Additionally, the Penn State basketball programs have had successful seasons as well.

winners will be announced Jan. 18 and Pollstar Award winners will be announced Jan. 31.

Facilities Magazine, a bimonthly publication directing its attention to arenas, convention centers, stadiums and theaters, selected the Jordan Center as one of the 25 winners of the 1996 Prime Site Award.

In its first year of operation, the center has grossed more than \$6 million in ticket sales and was ranked as the top grossing U.S. venue in its respective category in

University Park surpasses United Way goal

University Park employees contributed more than \$452,000 to United Way, exceeding the goal of \$450,000. The record-breaking total includes retiree contributions of more than \$58,000 and funds raised from about 13 special projects or events. These contributions helped set a fund-raising record this year for the Centre County United Way of more than \$1.3 million.

In addition, an outpouring of community support during the 1996 United Way campaign at Penn State Harrisburg also broke previous records for participation and contributions. In the most successful appeal since the college was established 30 years

ago, Penn State Harrisburg's campaign reached its goal of \$16,500 with nearly 50 percent participation.

Athletic Director Tim Curley, who served as 1996 chairman of the University Park effort, cited the following areas at University Park for outstanding achievement:

- Highest increase in dollars raised (1 to 100 employees): College of Communications;
- Highest participation rate (1 to 100 employees): Finance and Business, General Operations;
- Highest increase in dollars raised (101 to 200 employees): Enrollment Management;
- Highest participation rate (101

to 200 employees): Development and Alumni Relations;

- Highest increase in dollars raised and highest participation rate (201 to 400 employees): The Smeal College of Business Administration; and

- Highest increase in dollars raised and highest participation rate (401 or more employees): College of Engineering.

For more specifics on the amounts raised through various events or a full listing of University Park units that exceeded their participation and funding goals, visit the *Intercom's* Web site at <http://www.ur.psu.edu/INTERCOM/Home.html>.

Center for Adult Learner Services seeks nominations for outstanding student

The Center for Adult Learner Services at University Park is accepting nominations for its 1997 Outstanding Adult Student Award.

Faculty, staff and currently enrolled adult students at Penn State may nominate an adult learner who has overcome obstacles and multiple roles to further his or her educa-

tion; served as a role model for other adult students; maintained high academic achievements; sensitized the University to adult learners' needs; and has clearly defined short- and long-term educational goals.

To qualify for this award, a student must have begun or resumed studies after the age of 24 or after

having been out of high school for four years. They also must have been enrolled at University Park as a full- or part-time undergraduate or graduate student within four months of nomination. Undergraduates must have completed 45 credits, taking at least 30 of them at Penn State. Graduate students must have earned a

minimum of 15 graduate credits. Undergraduate nominees will receive preference in consideration.

Nomination packets may be obtained by calling (814) 863-3887 or by stopping by the center at 323 Boucke Building. Completed packets must be returned to the center by Monday, Feb. 3.

Highlight on Undergraduate Education

Hazleton students gain hands-on experience

In an innovative partnership that combines teaching with hands-on experiences in television production techniques, WYLN-35, a subsidiary of Gans Multimedia Inc., and Penn State Hazleton will join forces as educational partners for sophomore students in the communications major at the campus.

Beginning this semester, 16

sophomore students will have weekly hands-on experiences at the WYLN-35 studios where they will learn television production techniques and produce programs as part of an innovative classroom and hands-on television studio experience. Instructor **Daniel Meltzer** will be joined by production and engineering staff at WYLN-35 to

teach elements of camera work, lighting, audio techniques, control room operations and videotape editing.

One of the goals of the program will be the production of a weekly program to be aired on WYLN-35 that will feature the students in the program, and will focus on events and people at Penn State Hazleton.

Advisory panel adds member, seeks input from employees

A new member has been appointed to a three-year term on the Human Resources Development Advisory Committee, a University-wide group of faculty and staff that act as a professional and organizational development and training advisory body to the Office of Human Resources.

Kathleen D. Matson, administrative assistant in the Department of Meteorology, has been named to the post. She also serves as a member of the Staff Focus Committee and its Training and Management Development Subcommittee. The appointment of a member of the Staff Focus Committee to the Human Resources Development Advisory Committee now links the organizations to allow both groups to share information and address similar concerns without duplicating efforts.

Any University staff member may contact Matson or other Staff Focus Committee members to discuss concerns of issues related to training and development or other human resources matters. Members of the Staff Focus Committee and their e-mail addresses are: **Lydia Abdullah** at lpal1@psu.edu; **Duane Bullock** at DNBS@psu.edu; **Kenneth Clarke** at kic2@psu.edu; **Yvelyn Delizia** at mlidelizia@psu.edu; **Evelyn Ellis** at emel1@psu.edu; **Dee Frisque** at dmlr10@psu.edu; **Kenneth Johnston** at knjl1@psu.edu; **Robert Kidder** at rlk1@psu.edu; and **Jenny King** at jk3@psu.edu.

Also included are: **Beverly Ladrido** at bml2@psu.edu; **Stan Latta** at slx11@oas.psu.edu; **Fred Loomis** at fdl1@cde.psu.edu; **Kathleen Matson** at matson@ems.psu.edu; **Lissa Olibeter** at lbo1@psu.edu; **Debra Putt** at dap3@psu.edu; **Danielle Richards** at dpr1@oas.psu.edu; **Kenneth Rudy** at kernuc@engr.psu.edu; **Frank Simmons** (none); and **Billie Willis** at bsw2@psu.edu.



Over easy

University President Graham B. Spanier cooked breakfast for students at a Midnight Study Break at Findlay Dining Commons in East Halls on the University Park Campus during finals week in December. The event was the first of its kind at University Park, and was so successful that it will now be held during final exam week each fall semester.

Photo: Greg Grieco

College of Medicine seeks department chair

The College of Medicine at The Hershey Medical Center is seeking a chair of the Department of Health Evaluation Sciences. This proposed new academic department, with a primary location at the medical center, will be active in clinical and patient-oriented research as well as methodological and applied research in epidemiology, biostatistics, clinical epidemiology, health services and health informatics. This department also will develop and implement educational programs in these scientific disciplines for attend-

ing physicians, fellows, and medical and graduate students.

The chair is expected to promote research in health services, population-based epidemiology and informatics, to support ongoing research in the methods and applications of biostatistics and, importantly, to lead the expansion of clinical epidemiology across all disciplines.

Currently, in the Center for Biostatistics and Epidemiology—considered an essential component of the new department—there are six tenure-

track faculty, four research faculty and 34 staff members. Last fiscal year, center faculty received 24 grants and contracts totaling \$2.8 million.

Penn State is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. Anyone interested should send a current curriculum vitae by Feb. 14 to: Dr. Herbert Y. Reynolds, professor and chairman of the Department of Medicine, The Milton S. Hershey Medical Center, P.O. Box 580, Hershey, PA 17033.

WEB
BROWSER

By DOUG STANFIELD
Technology editor

Emptying the mailbox...

This week's offerings are a collection of suggestions from readers.

Shareware galore

It's a cliché, but the Internet is so crowded that a major headache is finding what you want. We've included links to search engines before, but if you are looking for software and don't have a lot of money to spend on a new application, update or utility, this site should help.

This site has thousands of shareware software titles. A really nice feature is that it's searchable in a number of different ways. You can look via a Quicksearch by platform (Mac, PC, etc.), by looking at a listing of the most popular downloads, by browsing through another listing of the new arrivals, by the "title of the day" and through a highlights section. But remember, this distribution idea only works if you pay your modest shareware fee!

<http://www.shareware.com/>

Resources for faculty

New instructional resources are also becoming available to faculty at Penn State. The current listing may be found under the Faculty and Staff Services listing on the main Penn State home page (<http://www.psu.edu/faculty.html>), along with many other items.

Two from this page are highlighted this week. The first site is presented by the Educational Technology Services unit. ETS, formed in 1986, is a faculty support unit dedicated to the effective use of teaching and learning technologies.

<http://ets.cac.psu.edu/>

The second is the site of the Center for Excellence in Learning and Teaching (formerly Instructional Development Program). This unit, part of the Office of Undergraduate Education, supports instructional improvement by providing programs, services and information to Penn State faculty, instructors and teaching assistants throughout the Penn State system.

http://www.psu.edu/80/academic/ue/IDP_Homepage.html

If you know of an unusual or particularly interesting use of the Web, send the URL to Doug.Stanfield@psu.edu.

FIRST LIGHT

Hobby-Eberly Telescope takes its initial peek at the universe

The largest and most powerful optical telescope in the continental United States took its first look at the universe in mid-December, demonstrating the feasibility of its novel design and ushering in a new era of cost-effective large telescopes.

The milestone event, known as "first-light," was announced Dec. 12 by board members, engineers and astronomers associated with the new William P. Hobby-Robert E. Eberly Telescope (HET) Project, a partnership involving Penn State, The University of Texas at Austin, Stanford University and the German universities Georg-August-Universität Göttingen and Ludwig-Maximilians-Universität München.

Other 10-meter class telescopes, like the Keck telescope in Hawaii, are not publicly accessible. With its visitors' gallery, the HET will be the largest telescope in the world visible to the public. It will be commissioned in late 1997 at McDonald Observatory in the Davis Mountains, a remote area of western Texas recognized as having the darkest skies in North America.

The \$13.5-million Hobby-Eberly Telescope, named for **Bill Hobby**, former Texas lieutenant governor, and **Robert E. Eberly**, a Penn State benefactor, gives the partner institutions access to one of the largest telescopes in the world at a construction cost that is one-fifth of what other telescopes in its class have cost to build. The HET's cost-saving design eliminates many of the expensive features that give a standard telescope its all-purpose flexibility. The telescope employs the largest primary mirror in the world—11 meters (432 inches) in diameter—and consists of 91 identical 1-meter hexagonal mirror segments that can be cost-effectively produced in quantity.

Another cost-saving feature is that, in contrast to most telescopes, the HET tracks objects as they move across the night sky—not by rotating the entire telescope, but by moving just a few

For more information

Want to know more? Look on the Web:

Hobby-Eberly Telescope Project sites:

■ <http://www.as.utexas.edu/mcdonald/het/het.html>

■ <http://www.as.utexas.edu/mcdonald/het/het-pictures.html>

■ <http://www.astro.psu.edu/het/>

DID YOU KNOW

■ With the Hobby-Eberly Telescope, astronomers will be able to see a football that is twice as far away as the moon.

■ The telescope is one of the largest in the world, but its \$13.5-million cost is one-fifth of others in its class because of its design.

focusing instruments suspended above the primary mirror. This engineering concept reduces by more than 10 times the amount of telescope mass that must be moved under precise control. The telescope's schedule will be computer controlled to allow many different types of observations to be made in a single night. This design feature improves the overall efficiency of the telescope and allows the HET to seize opportunities to study short-lived astronomical events.

Astronomers are planning to use the Hobby-Eberly Telescope to search for planets around other stars, to study the origin of the elements in our own galaxy, to measure the properties of black holes, to probe for the existence of dark matter in and around galaxies and to investigate the early history of galaxies and the universe. During the commissioning period, expected to last until August 1997, **Thomas Sebring**, project manager, and **Lawrence W. Ramsey**, HET project



Operational

The Hobby-Eberly Telescope in Western Texas took its first look at the stars on Dec. 12, 1996. The telescope will be commissioned later this year.

scientist, will lead a team of engineers and astronomers as they refine the telescope's engineering performance and bring it into full operation. **Ramsey** and **Daniel Weedman**, both professors of astronomy and astrophysics at Penn State, are co-inventors of the HET concept.

New policy supports victims of sexual assault

Unfortunately colleges and universities, like communities in general, have to deal with the violence and painful aftermath of sexual assault. An ugly crime based in hate, it harms not only the victim but also the community in which it occurs.

"The strongest defense against such behavior is a community that clearly sends the message that sexual assault is not acceptable. At Penn State we have developed a new policy reaffirming that Penn State does not tolerate sexual assault, and will prosecute the perpetrators of such acts of violence to the fullest extent of the law," Dr. **Margaret Spear**, director of University Health Services and chair of Penn State's Sexual Assault Committee, said.

The University is also committed to supporting victims of sexual assault through a wide range of confidential primary health care and referral services.

According to Spear, the new policy, which is now in effect, more clearly identifies who is to be notified in the case of an assault, assigns responsibility to specific areas to provide services and ensures that such services for victims are in place at all Penn State campuses.

The policy specifies:

— Each University location will have primary care services for victims of sexual assault and/or appropriate referrals to community services.

— Any faculty or staff member in contact with a sexual assault victim should consult with counseling and/or health services and the offices of student affairs and human resources for assistance in providing appropriate services.

— The student affairs officer at each Penn State location will oversee local protocols and procedures and periodically review and update them; will orient and train staff who are most likely to have victim contact; collect data and monitor trends and use of services; and provide informational materials and educational programs.

— The student affairs officer at each Penn State location will also appoint an individual to serve as a victim or witness advocate to provide crisis counseling; assist victims with academic concerns; accompany victims to court or other legal proceedings; and act as a referral to other community resources.

Since sexual assault is not limited to students, the University also provides counseling services to faculty and staff through its Employee Assistance Program.

The Sexual Assault Committee, appointed by **William Asbury**, vice president for student affairs, provides University-wide oversight for policy and procedures relating to sexual assault. Last year, the committee developed and distributed the Sexual Assault Protocol, which provides information and guidance for individuals assisting victims. It is available on request from the committee or at 216 Ritenour Building.

The new sexual assault policy, AD12, is on Penn State's home page on the Web at <http://www.ohr.psu.edu/pages/policies.htm> and is listed under the Administrative Policies folder. Related policies, Sexual Harassment (AD41), Statement on HIV/AIDS (AD43) and Consensual Relationships (AD43), are also on the Web and may be of interest. For advice in the event of a sexual assault, see The Office of Student Affairs home page at <http://kac.psu.edu/~pmmn/7a.html>.

Faculty/Staff Alerts

President to discuss University's future on WPSU radio program

University President **Graham B. Spanier** will discuss the future of Penn State on his monthly radio show, "To the Best of My Knowledge," which will be broadcast on WPSU radio at 7 p.m. Thursday, Jan. 23. The public is invited to participate in the discussion and to ask questions by calling (800) 543-8242.

WPSU-FM can be heard in the State College area at 90.1 on your radio dial and in other parts of its wide listening area at 91.5 or 106.7. Hosted by **Patty Satalia**, "To the Best of My Knowledge" is a series designed to explore topics of concern to the University and community and allows listeners a chance to speak directly with Penn State's president.

Name change

Penn State's Instructional Development Program (IDP) has a new name: the Center for Excellence in Learning and Teaching.

Operating out of the Office of Undergraduate Education, the center supports instructional improvement by providing programs, services and information to faculty, instructors and teaching assistants throughout the Penn State system. **Diane M. Enerson**, the center's director, said the new name is intended to reflect changes that have already taken place at the center — among them its "increased breadth and enhanced ability to facilitate conversations about teaching and learning among Penn State teachers at all levels of expertise."

A full description of the center and what it does, as well as many of its resources, are online at http://www.psu.edu/idp_celt. For more information, or to be added to the center's mailing list, call (814) 863-2599 or e-mail IDP@psu.edu.

HRDC courses

The following courses are being offered by the Human Resource Development Center:

Movin' On: Developing Yourself for a New Position

This program is designed to help participants systematically prepare themselves for the next position in their careers. Meets on Thursdays, Jan. 16 and 23 from 11:30 a.m. to 1:30 p.m. in 319 Rider Building. Cost: \$35.

Writing, Editing and Managing Newsletters

Meets on Thursdays, Jan. 16 and 23 from 8:15 to 11:15 a.m. in 319 Rider Building. Cost: \$55.

25-year Awards

Comments, please

A special committee of the University Faculty Senate has extended its deadline for comments on a working document that assesses and recommends ways to change Penn State's general education program.

The deadline is now Jan. 24. Members of the University community are invited to submit comments in writing to **Robert Pangborn**, chair of the Special Committee on General Education and associate dean of undergraduate studies in the College of Engineering. Comments may be delivered to Pangborn at 101 Hammond Building, sent via e-mail to rmp10@psu.edu, or faxed to (814) 863-4749.

The committee's report and recommendations were discussed by the Faculty Senate in a forensic session at its Dec. 3, 1996, meeting.

The committee has actively solicited comment from the University community since it first met in February 1996. The committee has extended its deadline for comments because it has been receiving such substantial and useful input.

Copies of the committee's working document are available through the Office of Undergraduate Education, 417 Old Main, (814) 863-1864. The document also is available on the World Wide Web at <http://www.psu.edu/dept/edu/gened/report.html>.

A final document is expected to be voted on by the Faculty Senate by February. The Senate's next meeting is 1:30 p.m. Tuesday, Jan. 28, in Room 112, Kern Building on the University Park Campus.

Award deadline nears

The nomination deadline for the Rosemary Schraer Mentor Award, established by the Commission for Women, is Jan. 24. Any woman wishing to nominate a University employee who exemplifies the caring and mentoring displayed by Rosemary Schraer should submit a nomination form by that date to **Ellen Walker**, 311 Grange Building, University Park, Pa. 16802. Schraer was a faculty member in the Eberly College of Science and associate provost of the University from 1981-1985. She became the first woman chancellor in the University of California system in 1987. She died April 10, 1992.

Information and nomination forms can be obtained by calling the Commission for Women office at (814) 865-1683.

Grant money for study in Israel available for undergraduates

Penn State freshmen, sophomores and juniors are eligible to participate in the Dorot Foundation Trav-

el Grants for summer study in Israel sponsored by the Jewish Studies Program. Application deadline is March 25. Awards of up to \$1,000 will be made for qualifying academic activities on the basis of need. This summer program may be combined with a residential fall or spring semester program of study abroad.

For information on how to apply, contact the Jewish Studies Program office at (814) 863-8939. Applications should be submitted to the Jewish Studies Program, 103 Weaver Building, University Park, Pa. 16802. Announcements of awards will be made by April 3.

A reminder to electronic mail users

The Office of Administrative Systems (OAS) would like to remind all Emc2 users that this electronic mail system will no longer be available for use as of July 1997. OAS is recommending that all staff members who have not already replaced Emc2 with a pop-mail client (such as Eudora) should begin this process. In addition, any offices sponsoring Emc2 userforms, mail lists, bulletin boards and conferences will need to begin using alternatives to these functions as quickly as possible.

To help with this, the following OAS World Wide Web page is available to provide assistance at URL: <http://www.oas.psu.edu/compute/email/email.html>. For those who do not yet have access to the Web, this information also is available through the Emc2 Bulletin Board: #WB8 or through the Emc2 Conference: TAO.

Any questions can be directed to the following e-mail address: soas-ssc@psuvm.psu.edu.

Australia Day dinner planned

The Fifth Annual Australia Day Dinner will be held beginning at 6:30 p.m. Saturday, Jan. 25, at the Nittany Lion Inn on the University Park Campus. The event, sponsored by the Australia-New Zealand Studies Center and the Penn State Faculty Staff Club, is an observance of Australia's national day and commemorates the arrival of the First Fleet in 1788 at Sydney Cove, inaugurating European settlement on the continent. Penn State is one of only two American universities with a center dedicated explicitly to the study of the Antipodes.

The evening will include an Australian short film screening, with commentary. Preregistration is required. For additional reservation information, please contact **Patricia Corbett** at (814) 863-1603 or by e-mail at pac9@psu.edu or (fax) (814) 865-3336.



CHERYL A. BROWN



LEO R. MCGINNIS



NICHOLAS G. OTZEL



D. EUGENE RANNELS



SUSAN WORLEY



JANET V. WILSON

Observing 25 years of service at the University are (from left): Cheryl A. Brown, staff assistant VI, Environmental Resources Research Institute in the Office of the Senior Vice President for Research and Graduate Education; Leo R. McGinnis, warehouse worker A, Office of Business Services; Nicholas G. Otzel, director of administration, Family and Community Medicine; D. Eugene Rannels Jr., distinguished professor and vice chairman, Department of Cellular and Molecular Physiology, and senior scientist in pulmonary biology, Department of Anesthesia; and Susan Worley, nurse in the Division of Urology, all at The Hershey Medical Center; and Janet V. Wilson, staff assistant VI, Penn State Press, in the Office of the Senior Vice President for Research and Graduate Education.

The

ARTS

AT PENN STATE

"Dismal Science" opens at Palmer Museum of Art

"Dismal Science, Photo Works by Allan Sekula, 1972-1996," opened at the Palmer Museum of Art on the University Park Campus and will close Sunday, March 16. The exhibition is the first retrospective of this artist's work and includes eight installations of photographs, text, audio recordings and slide projection pieces. After closing at the Palmer Museum, "Dismal Science" will travel to Berlin and London.

Sekula's work, both in writing and photography, challenges the ways we confront contemporary visual culture. This California artist uses photographs, text and installation to engage viewers and encourage dialogue.

Although widely exhibited in Europe, Sekula's work is less well-known in the United States. This exhibition was organized by University Galleries of Illinois State University and is supported in part by grants from the National Endowment for the Arts and the Illinois Arts Council.

For more information, contact the museum office at (814) 865-7672.

Bach's Lunch

Saxophobia, a saxophone quartet, will open the Bach's Lunch concert series for the spring semester at 12:10 p.m. Thursday, Jan. 16, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The performers in Saxophobia include Dan Yoder, professor of music who plays soprano saxophone, and three undergraduate saxophone majors: Kyle Glaser, alto sax; Bill Ferguson, tenor sax; and Sue Kearney, baritone sax.

In the semester's second Bach's Lunch concert, five undergraduate voice students in the School of Music will perform Thursday, Jan. 23, in the Helen Eakin Eisenhower Chapel.

Theresa Park, Jesse Benz, Naisha Galloway, Kristin Lunetta and Kimberly Burkhard were chosen to sing in this concert because they performed exceptionally well in their voice juries in December.

The 20-minute concerts are part of the Bach's Lunch series sponsored by the College of Arts and Architecture School of Music and the University Lutheran Parish.

Audience members are invited to take their own bag lunches to eat after the concert in the Roy and Agnes

Wilkinson Lounge. Coffee and tea will be provided.

Simply Elemental

The Dance Program in the Department of Kinesiology will present a faculty choreographed performance of dances responding to the natural elements: earth, water, air and fire on Jan. 16 and 17. Simply Elemental uses Native American beliefs as a unifying force for the varying dances, which range from folk to modern.

Simply Elemental will be performed at 8 both evenings in the White Hall Dance Theatre (room 132-133 White Building), on the University Park Campus. Tickets will be sold at the door. General admission is \$5; student admission is \$4.

Performance added at Bryce Jordan Center

The alternative rock band Geggy Tah has been added as special guest for Rusty Root at the Bryce Jordan Center at 7:30 p.m. Saturday, Jan. 18. Tickets can be purchased at the center, selected Uni-Mart ticket outlets, Commonwealth Campus ticket outlets, or by calling (814) 865-5555 locally, or toll-free at 1-800-863-3336. Tickets are \$19.25.

For more information on Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>.

Art song recital on Jan. 18

Baritone Matthew Shaw and pianist Stephen Grazzini will perform an evening of vocal music at 8 p.m. Saturday, Jan. 18, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus. The performance will feature a variety of music.

Shaw is a senior voice performance major at Penn State and studies with Richard Kennedy. He has received numerous awards and recently won the Penn State Philharmonic Soloists Competition.

The recital is free to the public.

Life of The Rev. Martin Luther King Jr. on display

The Paul Robeson Cultural Center on the University Park Campus is still featuring an exhibit of paintings and drawings depicting aspects of the life of Dr. Martin Luther King Jr. through Saturday, Feb. 1. The works are by Samuel Benson, who will give a public talk on his art in the Robeson Center



Exhibit, reception

Memories of Childhood, an exhibit of photographs, paintings and prints from fifteen artists, will be on display at the Hetzel Union Building Formal Gallery on the University Park Campus through Feb. 22. A free reception will be held from 6 to 8 p.m. Jan. 20 in the gallery, with The Strolling Strings and students from The Music Academy performing from 6 to 7 p.m.

ter at 3 p.m. Sunday, Jan. 19, with a reception to follow.

Benson, instructor of art in the Chester Upland School District, has his works included in the private collections of Bill Cosby and Patti LaBelle, among others. He has had exhibits at the October Gallery in Philadelphia, The DeShong Museum in Chester, Penn State Harrisburg and Lincoln University. He is a graduate of the Columbus College of Art and Design, Syracuse University and The University of Pennsylvania.

The Robeson Center Gallery hours are 8 a.m. to 10 p.m. Monday through Friday; 10 a.m. to 4 p.m. on Saturdays; and by arrangement on Sundays.

Lusk to perform Bach

Mark Lusk, associate professor of trombone, will present a free solo recital at 8 p.m. Sunday, Jan. 19, in the College of Arts and Architecture School of Music Recital Hall on the University Park Campus.

Lusk's program will consist of the Suites for *Unaccompanied Cello* by Johann Sebastian Bach. These pieces have been transcribed for the trombone in a new book, titled *The Trombonist's Guide to the Cello Suites* by Johann Sebastian Bach, by Lusk.

MetaStages registration

Registration is open for children's spring drama classes. MetaStages Theatre Centre, an outreach program, offers classes after school and on Sat-

urday for age groups from K-12th grade. Weekly sessions begin Saturday, Feb. 1, at the Paul Robeson Cultural Center on the University Park Campus.

Children receive performance training from professionals in acting, voice, movement, mime and masks as they rehearse and perform plays from various countries and cultures. Classes culminate with an afternoon of final performances. Class size is strictly limited. For more information, contact Joanne Leonard, MetaStages director, at (814) 867-8390.

Patty Loveless to play at Penn College Arts Center

New Country star Patty Loveless will perform at 7:30 p.m. Saturday, Feb. 8, at the Community Arts Center, part of the Pennsylvania College of Technology in Williamsport.

One of the first artists to arrive on the scene and combine traditional country, bluegrass and rock 'n' roll into what is now known as New Country, Loveless has had a distinguished decade-long national career. Her hits include "Hillbilly," "Halfway Down," "When Fallen Angels Fly," "You Don't Know Who I Am," "I Try To Think About Elvis," and many more.

Tickets for this event are \$28.50, \$23.50 and \$18.50. For more information, please call (717) 326-2424.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Saturday, January 18
School of Music, 8 p.m., Recital Hall. Student voice recital by Matthew Shaw.

School of Music, 8 p.m., 122 Music Building II. Student recital by Jennifer Updegrave, violin, and Gregory Woodbridge, piano.

Sunday, January 19
School of Music, 2 p.m., Recital Hall. Student recital by Nesrine Balbesi, violin.

Paul Robeson Cultural Center, 3 p.m. Samuel Benson speaks on Martin Luther King Jr.

School of Music, 8 p.m., Recital Hall. Faculty recital by Mark Lusk, trombone.

Monday, January 20
School of Music, 8 p.m., Recital Hall. Student recital by "Modern String Quartet."

Wednesday, January 22
School of Music, 6 p.m., Recital Hall. "Jury Recognition Recital."

Center for Women Students, 12-1 p.m., CWS Resource Room, 120 Boucke. Film and discussion on "That Ain't No Way To Treat a Lady."

Thursday, January 23
School of Music, 8 p.m., Recital Hall. Student recital by Daniel Weiner, trombone.

Friday, January 24
Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Robin Seymour on "Nineteenth-Century American Art."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium, "Mummenshanz." For tickets, call (814) 863-0255.

Saturday, January 25
Center for the Performing Arts, 8 p.m., Eisenhower Auditorium, "Martha Graham Dance Company." For tickets, call (814) 863-0255.

School of Music, 2 p.m., Recital Hall. Student voice recital by Nicole Hyde.

■ Australia-New Zealand Studies Center and Faculty-Staff Club, 6:30 p.m., Nittany Lion Inn. "Fifth Annual Australia Day Dinner."

School of Music, 8 p.m., Recital Hall. Student recital by Julie Lybarger, french horn.



On display

"Man on bus passing abandoned waterfront factory" and other photographic works by Allan Sekula are on exhibit at the Palmer Museum of Art on the University Park Campus. "Disimal Science: Photo Works by Allan Sekula, 1972-1996" can be seen through March 16.

Sunday, January 26
School of Music, 8 p.m., Recital Hall. "Faculty Composer's Concert."

Monday, January 27
School of Music, 8 p.m., Recital Hall. Student recital presents a saxophone quartet.

Tuesday, January 28
Nittany Valley Symphony, 8 p.m., Eisenhower Auditorium. "A Symphonic Spectacular." For tickets call (814) 863-0255.

Center for Women Students, 7 p.m., Assembly Room, Hetzel Union Building. Theatre presentation on "Sex at 7."

Wednesday, January 29
School of Music, 8 p.m., Recital Hall. Student recital by Stephanie Pitsilos, piano.

SEMINARS

Monday, January 20
Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Helen Smith on "Computer Access to Library Resources."

Gravity Center, 2 p.m., 339 Davey Lab. Chopin Soo on "Invariant Regularization of Chiral Fermion Theories."

Thursday, January 23
Gravity Center, 11:30 a.m., 339 Davey Lab. Curt Cutler on "Pulsar Searches with LIGO."

Saturday, January 25
Office for Minority Faculty Development, 9 a.m., 114 Kern. Blannie Bowen on "Promotion and Tenure for Junior Faculty."

EXHIBITS

Zoller Gallery
Photo collage by Ken Graves, Jan. 18 through Feb. 13. Photography by Kristin Breslin Sommesse, Jan. 18 through Feb. 13.

Palmer Museum of Art
"Disimal Science: Photo Works by Allan Sekula, 1972-1996," through March 16.

"Capturing the Light: A Selection of 20th-Century American Watercolors" by Winslow Homer, Jan. 28 through May 18.

"The Wood Engravings of Warren Mack," through Jan. 26.

■ Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at <http://cac.psu.edu/calendar/>

JANUARY 16 - JANUARY 31

Administrative Fellows applications due March 1

The Office of the President is seeking applications and nominations for the Administrative Fellows Program for 1997-98. Three fellows are being sought, one to serve under the mentorship of John A. Brighton, executive vice president and provost, one to work with Gary C. Schultz, senior vice president for finance and business, and the third to serve with Robert E. Dunham, senior vice president and dean of the Commonwealth Educational System.

The Administrative Fellows Program provides career development opportunities for women and minority faculty and staff. By serving under the mentorship of a senior level administrator, Fellows who are seeking the background necessary to compete at higher levels of administration will have an opportunity to broaden their perspectives and experience in higher education administration. Such an experience is designed to allow Fellows to become more effective in their existing positions within the University and to provide a base for them to consider further advancement in the future.

Objectives of the program include:
— To identify women and minorities who have potential for effective leadership
— To increase the Administrative Fellows'

awareness of the complexity of issues facing higher education and to enhance their understanding of the environment in which decisions are made.

— To provide opportunities for Administrative Fellows to participate in a wide range of decision-making processes, learning activities and program management so they will be better equipped to understand the challenges of higher education administration upon completion of the fellowship.

Although completion of the program does not guarantee appointment to an administrative position at the University, people who complete the program increase the pool of women and minorities interested in pursuing careers in University administration.

The selection criteria are: Full-time faculty or staff members; demonstrated success in current positions and interest in an administrative career; evidence of leadership experience and decision-making ability; ability to relate effectively with students, faculty and staff, and an understanding and appreciation of cultural, ethnic and individual differences; willingness to accept a wide variety of assignments.

Women and minorities meeting these qualifications at all University locations are strongly

urged to apply. Each successful candidate will be placed on leave of absence from her or his current position and continue to receive a regular salary. The starting dates of each fellowship may vary depending on the office and the Fellow's commitments.

The successful Administrative Fellows will develop learning plans outlining activities for the year, in consultation with their mentors. This program is competitive. A screening and interview committee will recommend candidates to Brighton, Schultz and Dunham. Serving on the committee will be a representative from the Commission for Women, representatives from the offices where the Fellows will be placed, a past Fellow and a representative from the Office of Human Resources.

Applications for the Administrative Fellows Program are available from the Office of Human Resources at (814) 863-6188 or at the OHR Web site under "What's New" at URL <http://www.oohr.psu.edu>. Applications should be returned to the Office of Human Resources, Box 6, Rider Building, University Park, as soon as possible, but no later than March 1. For more information, call Robert L. Kinder at (814) 863-4606.

■ Virtual Reality in action

Alumni keep in virtual touch through the Web

On a cold Sunday morning not long ago, a first-year Penn State student stood on the Old Main lawn. The lawn was almost deserted and the building empty, so the one or two other people in the area may have wondered what she was doing when she abruptly turned toward the structure and began energetically waving her arms.

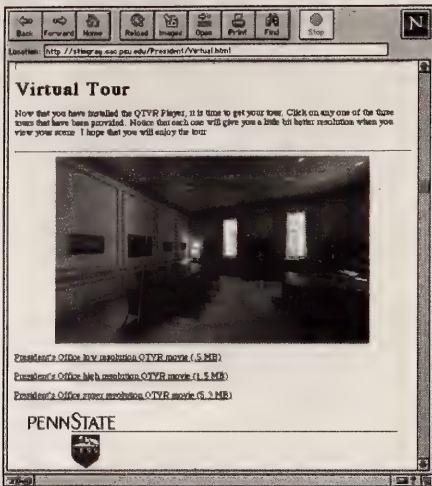
But her parents weren't wondering. In the student's hometown hundreds of miles away, under an arrangement they'd made previously by e-mail, the student's parents turned on their computer and pointed their Web browser to the Penn State home page. There they found the hot link to LionCam, (<http://www.psu.edu/ur/cam/lioncam.html>) a camera that since last summer has been placed in various locations around the University Park Campus.

On this particular Sunday morning, LionCam was pointed out a third-floor window to the spot on the Old Main lawn where the student was standing. Using their computer and Penn State's Web technology, the parents were able to see their daughter — live from Penn State.

Increasingly, Penn Staters are staying in touch with Dear Old State in many different ways via the Web. As an institution that is already leading national efforts on the Web, Penn State continues experimenting with even newer technology.

"We realize not everyone has the home or office computer to take advantage of all the technological advances we are able to support centrally here, but more and more people can and it is important for Penn State to be a leader in this technological revolution," Steve MacCarthy, executive director of University Relations, said.

Even as the general public and commercial world in larger numbers are just getting on to the information highway, Penn State is now chairing an effort by some of the top research universities in the United States to launch Internet II — an even faster, more



President's office

This virtual tour of President Graham B. Spanier's office can be found on the Web at <http://lstringer.cac.psu.edu/President/>

complex information technology network.

No matter where in the world you surf the World Wide Web from, increasingly you can see more of Penn State in ways that were not possible before. Photographs, video clips and virtual reality tours of landmark sites at University Park are now available on the Penn State home pages. And more ambitious ideas are on the drawing board for the months ahead.

The most recent addition is an expansion of so-called virtual reality photographs of Penn State sites. This endeavor follows on the heels of a project about a year ago that paired the Office of University Relations and the

Center for Academic Computing in a venture to provide a virtual reality tour of President Graham B. Spanier's office (<http://lstringer.cac.psu.edu/President/>). Visitors who point their Web browser to this site are treated to a view of the president's office in 201 Old Main. It's possibly the next best thing to actually being there.

In addition to that site, over the last few weeks the University has established virtual reality tours of another half dozen University Park locations. Now Web surfers can also take virtual spins at Pattee Library, University House, Old Main, Beaver Stadium, The Bryce Jordan Center and the Palmer Museum of Art.

Go to the University's home page (<http://www.psu.edu>) and look for the hot link for the virtual reality tours or go directly to the site at URL: <http://www.psu.edu/psuqtr/psuqtr.html>. Here you'll find a campus map along with icons indicating the buildings or areas where a virtual tour link has been established. Follow the instructions to download the images and the virtual reality software.

Doug Stanfield, coordinator of information technology in the Office of University Relations, has been working with Jim Molony in the Center for Academic Computing to develop and present the tours.

Thousands of pages of Penn State information are accessible through the Web, and much more will follow in the coming months, according to MacCarthy.

Stanfield, who also is the person who has lugged the camera and computer equipment to various locations around campus, has been receiving enthusiastic e-mail from alumni and friends of the University. E-mail fans of LionCam have written from as close as Harrisburg and as far away as California, Belgium, The Netherlands, Albania, Paris and Dubai, in the United Arab Emirates, to say the camera is a nice way for them to see what's happening back on campus, on demand, at any time. On the Web, distance and time don't matter.

LionCam will be moved around campus to other sites during the coming year and new camera sites are always being sought. Stanfield said one of the most requested views he receives from alumni around the world is for the Nittany Lion statue, but he is still working on identifying a suitable place to position the camera with a good view and a convenient connection to the Internet.

Stanfield would be happy to assist anyone who is thinking of putting up a camera on campus that could produce new LionCam images. Send him an e-mail at dws9@psu.edu with your ideas.

WISE awarded \$138,896 for fellowships and scholarships

The Women in the Sciences and Engineering (WISE) Institute has been awarded \$138,896 from the Clare Boothe Luce Program of the Henry Luce Foundation Inc. to support graduate fellowships and undergraduate scholarships for women in science and engineering at Penn State.

These Clare Boothe Luce Scholars Awards consist of two, two-year undergraduate scholarships and two, two-year graduate fellowships. The Clare Boothe Luce Program was established to encourage women to pursue science and engineering careers. Luce was born in 1903 and her career spanned seven decades until her death in 1987. Although her inter-

ests were broad, she chose to establish a legacy to benefit current and future generations of women in areas where they continue to be grossly underrepresented.

■ Application deadline for the Clare Boothe Luce Undergraduate Scholarship Award is March 7. Applicants must be full-time Penn State students and be sophomores or juniors in fall 1997 with at least a 3.3 GPA. The scholarship consists of two years of tuition/fee waiver, a \$6,000 stipend the first year and a \$7,000 stipend the second year. Students in pre-med are not eligible for this award.

■ The application deadline for the Clare Boothe

Luce Graduate Fellowship Award is Feb. 14. Applicants must be full-time students who have been admitted and will enroll in the Graduate School in fall 1997, or are currently graduate students with a minimum of two years to graduation and are seeking an M.S. or Ph.D. Medical school students are not eligible. The award consists of two years of tuition/fee waiver, a \$15,000 stipend for the first year and a \$16,000 stipend for the second year.

Application forms for both awards can be obtained by contacting the WISE Institute at 510 Thomas Building, University Park, Pa. 16802; (814) 863-0085; or e-mail to WISE@psu.edu.

Illiteracy

continued from page 1

weekly radio addresses, Clinton said the program's goal is for all American children to be able to read on their own by the third grade. Clinton said the support of the nation's colleges and universities should provide "thousands of new tutors, a down payment toward our goal of enlisting 100,000 work-study students to help America read."

The Penn State system's share of the increase in work-study funds is about \$800,000 for next year, meaning that \$400,000 could be designated for work-study students for "America Reads." With grants averaging about \$1,600, Penn State could use those funds to hire about 250 work-study students and pro-

vide about 80,000 hours of tutoring time.

Besides Penn State, the only other Pennsylvania institution taking part in the program is Gettysburg College. The other institutions are the Bank Street College of Education; the California State University System; the Community College of Denver; Chicago State University; Georgetown University; the University of Maryland at College Park; Miami-Dade Community College; the University of Mississippi; the University of Montana; Morehouse College; New York University; the University of North Carolina at Chapel Hill; The Ohio State University; Portland State University; San Francisco State University; Southern Illinois University; the University of Texas at El Paso; and the Vermont State Colleges System.

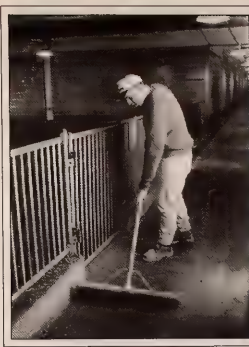


Photo: Greg Grieco

Cleaning up

Jeff Bissett, a senior in dairy and animal science, sweeps the sheep barns on the University Park Campus. Students in the major care for the animals as part of their education. Many of the barns are open to the public.

For information, call one of the following numbers:

Dairy Barns — 863-0835
Horse Barn — 863-0834
Sheep Barn — 863-2746
Swine Center — 865-5893
Swine Center — 865-5651

News in Brief

It's at the Nat

The following Aquacise programs are being offered this semester at the McCoy Natatorium and White Building Pool through May 2 (excluding the week of spring break from March 10-15):

■ **Low-impact:** 10 to 11 a.m., Tuesday and Thursday at the McCoy Natatorium;

■ **Water Exercise (more stretching):** 10:10 to 11 a.m., Monday, Wednesday, Friday at the McCoy Natatorium; and 1 to 2 p.m., Tuesday and Thursday at the White Building;

■ **Water Exercise (more activity):** 12:10 to 12:50 p.m., Tuesday and Thursday at the White Building;

■ **High-intensity Water Aerobics:** 8 to 9 a.m. and 5:30 to 6:30 p.m., Tuesday and Thursday at the McCoy Natatorium; 5:30 to 6:30 p.m., Monday and Wednesday at the McCoy Natatorium; 9:15 to 10:15 a.m., Saturday at the White Building.

The above programs cost \$20 per semester. When you purchase the Aquacise ticket, you may go to any Aquacise class as often as you like. You are not restricted to one class per semester.

Spring semester hours for the McCoy Natatorium and other fitness facilities follow:

McCoy Natatorium

7:15-9 a.m. — Monday through Friday (everyone); 9:45 to 11 a.m. — Tuesday and Thursday (special populations);

10 to 11 a.m. — Monday, Wednesday, Friday (special populations);

11 to noon — Monday through Friday (everyone); noon to 1:20 p.m. — Monday through Friday (faculty, staff, public);

5:15 to 6:30 p.m. — Monday through Friday (everyone); 6:30 to 9:50 p.m. — Monday through Friday (everyone incl. children);

noon to 9:50 p.m. — Saturday (everyone incl. children) and;

2:30 to 9:50 p.m. — Sunday (everyone incl. children)

Fitness Loft

6:30 to noon — Monday through Friday (everyone) noon to 1 p.m. — Monday through Friday (faculty, staff, public)

1 to 9:50 p.m. — Monday through Friday (everyone) noon to 9:50 p.m. — Saturday and Sunday (everyone)

White Building Pool

6:30 to 9 a.m. — Monday through Friday (everyone) 11 a.m. to 1 p.m. — Monday, Wednesday, Friday (everyone)

3:30 to 5 p.m. — Monday through Friday (everyone) 5 to 5:30 p.m. — Monday through Friday (faculty, staff, public)

7:30 to 8:30 p.m. — Tuesday and Thursday (everyone)

6:30 to 8 p.m. — Friday (everyone)

2:30 to 6:30 p.m. — Saturday and Sunday (everyone incl. children)

Wintertime fun

The Stone Valley Recreation Area, just 17 miles south of University Park off Route 26, provides a number of outdoor recreation opportunities, including:

■ **Ice skating:** Lake Perez annually freezes to provide ice skating opportunities (when ice thicknesses average at least six inches or greater). The use of the skating area is free of charge. Skate rentals are available weekends and on weekdays by appointment at the equipment rental at the Day Use Area.

■ **Cross country skiing:** Approximately 20 miles of trails are available for use. Use of the trails is free and group or private ski lessons are available.

■ **Ice fishing:** Lake Perez offers the opportunity to catch trout, pickerel and bass. While ice thickness normally exceeds 18 inches, caution should be used, particularly in the areas near the spillway and inlets. All regulations of the Pennsylvania Fish and Boat Commission apply. A Pennsylvania fishing license is required.

■ **Skating parties:** Night skating parties can be arranged by appointment. Postures included in this two-hour program are a lighted ice surface, a warm fire, indoor warming area and hot drinks. Group rates for skate rentals are available.

For information on any of these programs, contact Stone Valley at (814) 863-0762.

Winter blood drives

The American Red Cross, Center Communities Chapter, will conduct five blood drives on the University Park Campus this month to help rebuild depleted blood inventories from the Christmas-New Year holiday. All drives take place from 10 a.m. to 4 p.m.

- Jan. 16, Housing and Food Services Building.
- Jan. 21, HUB Ballroom.
- Jan. 23, Kern Building.
- Jan. 28, HUB Ballroom.
- Jan. 29, HUB Ballroom.

To give blood, you must weigh at least 105 pounds and be in generally good health. Donors may give once every 56 days. To confirm eligibility, call the regional Red Cross at (800) 54-BLOOD. The entire donation process takes a little more than an hour, including the health check and something to

eat. While walk-in donors are welcome, prior sign-ups help regulate donor flow. Appointments may be made by calling **Connie Schroeder**, campus coordinator, at 237-2713.

Nutrition plan for diabetic women

The Penn State Nutrition Center has developed a program to help women with diabetes understand and use the food label when grocery shopping. The program explains how to apply numbers and terms on the label to select appropriate products for people with diabetes. Women 40-60 years old with adult-onset diabetes are eligible for the program.

Participants will be assigned to one of two groups. The first group will participate in nine weekly group sessions beginning in March. The second group will receive all material in the mail. Participants will be reimbursed for completing the program. To learn more, call (814) 863-3930. This program is under the direction of **Cheryl Achterberg**, professor, Department of Nutrition.

Health Promotion Programs

The following programs are being offered by the Office of Human Resources:

Yoga Series

Two seven-week sessions are offered; each meets from noon to 1 p.m. in 110 Henderson Building (The Living Center). Cost: \$35 per session, reimbursable to HMO participants.

Session 1: Tuesdays, Jan. 28-March 11

Session 2: Tuesdays, March 18-April 29

Employee Assistance Program (EAP) Courses

Overview of Penn State's EAP services and a brief illustration of the counseling process. Meets Wednesday, Jan. 29, from 1:30-2:15 p.m., in 118 Reber Building, Cost: None.

EAP: The Supervisor's Role

Meets Wednesday, Jan. 29, from 1:30-3:30 p.m., in 125 Reber Building, Cost: None.

To register for any health promotion courses, contact **Jan Hawbaker** at 865-3085 or JQH3@psu.edu.

Join the Listserve

Stay informed about all health promotion programs and health information by joining the new Health Promotion Listserve. To join, send first and last name, and e-mail address to JQH3@psu.edu.



Colloquium offers chance for professional development

Continuing and Distance Education and the College of Education's Adult Education Program are sponsoring an Adult, Continuing and Distance Education Colloquium series during spring semester. This professional development opportunity is designed for Penn State faculty and staff, students and anyone interested in exploring issues relating to the field of adult, continuing and distance education.

The programs, open to the public, also will be available to participants at a distance by way of audio technology. The colloquia will be held on Mondays from 11:45 a.m. to 1 p.m. in 502 Keller Building on the University Park Campus. Participants are welcome to bring a bag lunch to the program.

The series includes these sessions:

— Jan. 20: **Georgia C. Abbey**, senior conference planner for C&DE's Conferences and Institutes, "Creative Component in the Development of Conferences."

— Feb. 10: **Sara J. Parks**, associate dean and associate professor, College of Health and Human Development, "Professional Perspective on Lifelong Learning."

— Feb. 17: **Kimberly A.**

Townsend, human resource development specialist and assistant professor of adult education, "Human Resource Development Function as an Adult Education Application."

— Feb. 24: **David Lewis**, visiting Fulbright Scholar and chief inspector and head of training, Durham Police Training Centre, "Continuing Professional Education in Great Britain."

— March 3: **Dale A. Moore**, research associate in veterinary science, College of Agricultural Sciences, "Continuing Professional Education Program for Veterinarians."

— March 24: **Ann H. Luck**, instructional design, C&DE's Department of Distance Education, "Nuts and Bolts of Distance Education Capabilities."

— April 14: **Wesley E. Donahue**, director of C&DE's Management Development Programs and Services, and **John E. Park**, assistant director of Management Development, "Management Development Program from an Adult Education Perspective."

For more information, contact **Donna S. Queney** at (814) 863-7752 or **Ginny Garza** at (814) 237-6375.

Lecture explores technology's role, market trends in food service industry

This year's "Food Service Manager 2002 Institute" explores the role of computer technology and innovation along with unfolding market trends in the food service industry. Slated for Feb. 17-18 on the University Park Campus, the conference will feature a host of speakers and topics, including:

■ **Keynote speaker Robert N. Grimes**, president of the Cyntergy Corporation of Gaithersburg, Md., who will discuss "Computer Technology: How Will Cyberspace and the Internet Impact Food Service?";

■ **Food Safety and Technology**, an overview of safe food handling practices presented by the USDA;

■ **A panel presentation on "Management Recruitment Model for the 90s: State of the Art Tools in Use"**, with panelists from the food service industry;

■ **A panel presentation on "Forging Partnerships: Association, Industry and Academia."** Among the panelists will be **Franco Harris**, owner of Super Bakery Inc. and Parks Sausages, and **Basil M. Cox**, president and CEO of Eat 'n' Park Restaurants.

■ **"Roles, Challenges and Opportunities for Executive Chefs: An Outlook for the Future,"** presented by **Paul Gotzman**, Marriott Corp., and **John Metz Jr.**, Friday's Restaurants.

The institute will be held at the Nittany Inn and both Mateer and Keller buildings. For more information about the program, send e-mail to **Peter L. Bordin** at PLB@PSU.EDU. For information on registration and fees, call **Suzanne N. Pierre**, conference planner, at (814) 863-5140, or visit the conference Web site at <http://www.cde.psu.edu/C&I/FoodService/>.

Motivational speaker to address Feb. 3 conference

Will Keim, a motivational speaker who has addressed more than 750 million students on 750 college and university campuses around the world, will be the keynote speaker at a Feb. 3 conference on service leadership at The Penn State Schuyl campus.

Keim is the author of *Life After College: Lessons for Students in Transition*, *The Education of Character: Lessons for Beginners* and *Spirit Journey: A Walk Through Matthew*. Named "outstanding professor of the year" at Oregon University State University for 1985-86, Keim has been an educator, residence hall director, educational program coordinator and campus minister. He has B.A. and M.A. degrees from the University of the Pacific, Calif., and a Ph.D. in education from Oregon State.

The theme of this year's conference, sponsored by the AT&T Center for Service Leadership at University



WILL KEIM

Park is "Serving the Community, Leading Each Other." The conference is designed for student leaders, human service agency representatives, student affairs administrators, faculty and others interested in integrating service or service-learning into college and university curricula. It has two tracks, one for

student participants (with eight workshops) and one for professionals (with 12 workshops).

Also, a poster session will allow participants an opportunity to display community service and/or service leadership projects led by their organizations. The registration deadline for the conference is Jan. 17. For more information on the program or on registration, contact **Melissa Frank-Alston** at (814) 863-4624.

Harrisburg business lectures tackle series of national, international topics

The 1997 Downtown Harrisburg Lecture Series, Current Issues in Business, has kicked off and will feature nine more talks throughout the year. Presented by the Penn State Harrisburg School of Business Administration, the series covers issues of both international and national importance. The talks, from noon to 1 p.m., are held at the Eastgate Center on North Seventh Street. For more information

about the series or to reserve seats, call the center at (717) 772-3590.

Events through March follow:
■ **"Doing Business in Japan: A Case Study,"** presented by **Shohei Yonada**, international sales manager for Masland Division of Lear Inc., on Feb. 11.

■ **"Economic Issues in Welfare Reform,"** given by **Jacob DeRooy**, associate professor of finance at Penn State Harrisburg, on March 11.

Olympic gold medal winner to give Luchinsky Memorial Lecture Jan. 29

Kurt Angle, who won an Olympic gold medal in wrestling in Atlanta during the 1996 Games, will give the 1997 Luchinsky Memorial lecture on how he overcame adversity to realize his goal of winning the gold. He will speak at 7:30 p.m. Wednesday, Jan. 29, in the HUB Assembly Room on the University Park Campus.

The annual lecture is sponsored by the University Scholars Program and is endowed by family and friends to honor the memory of **Mark Luchinsky**, a University Scholar and a biochemistry major who died in 1995.

For more information, contact **Martha Anandakrishnan** in the scholars office at 863-2635.

Series explains children's behavior

An upcoming three-part discussion series at the Penn State Downtown Center in Harrisburg is geared to help parents and teachers understand why children behave the way they do.

"Proud Adults, Proud Children" will be presented free on the evenings of Jan. 16, 30 and Feb. 6 and will feature two recognized experts in the field of education and behavior.

James Levin, associate professor with the Graduate School of the College of Education at the University Park Campus, and **John Shanken-Kaye**, a parent and educational consultant in private practice in Doylestown, will conduct the 7 to 9

p.m. session targeting the behavior of children and adolescents.

The first session will focus on "Understanding Why Children Behave as They Do." The topic of the second session is "Encouraging the Pro-Social Behavior of Children and Adolescents: From Disruption to Achievement," and the series concludes with "Managing the Anti-Social Behavior of Children and Adolescents: The Self-Control Child."

The presentations, featuring a workshop format, are free to the public. For information, call the Penn State Downtown Center at (717) 783-0433.



Getting ready

Faculty aren't the only ones who had to gear up for the students' return to the campuses for spring semester. Several departments across the University see an increased workload tied to the start of the semester. Todd Emel was busy at Copy Center Services on the University Park Campus, copying syllabi for instructors to hand out on the first day of classes Jan. 13. For a story about preparations in the Penn State Bakery, please see page 1.

Photo: Greg Grieco

More Lectures

Tenure-track faculty workshops

All junior faculty on tenure track are welcome to participate in a three-part series of workshops being offered on the University Park Campus this spring by the Office for Faculty Development. The workshops for this semester include:

- "Promotion and Tenure for Junior Faculty" Saturday, Jan. 25, from 9 a.m. to noon in 114 Kern Building; Blainie Bowen, senior faculty mentor and professor of agricultural and extension education, will be the speaker. Reservations must be made by Jan. 22.
- "Seeking Grant Funds Electronically" Saturday, March 1, from 9 a.m. to noon in 110 Agricultural Sciences and Industries Building; Robert Killore, director of sponsored programs, will speak. Reservations for this workshop must be made by Feb. 26.
- "Teaching and Mentoring Minority Undergraduates (Effective Approaches and Strategies)" Friday, March 21, from 2 to 4 p.m. in 301A Agricultural Administration Building; Fred Cannon, assistant professor of civil and environmental engineering; Dan Trevino, assistant dean, College of Health and Human Development; Lisa Williams Walton, assistant professor of business logistics; and Howard Wray, associate dean for undergraduate education, will speak. Reservations must be received by Tuesday, March 18.

For more information on these workshops or to make reservations, contact Tammy Snook at (814) 863-1663.

Fitness, nutrition program for women

For many women, balancing a busy, pressure-intensive lifestyle with good nutrition and proper amounts of exercise can sometimes be a daunting task. Two leading experts in the fields of strength training and nutrition will lead area women through interactive sessions at a one-day program, "Getting it Together: Fitness and Nutrition for Women," Saturday, Feb. 1, at The Penn State Scanticon.

This second annual program is divided into two primary focuses: 1) "Strength and Resistance Training and the Benefits for Women," led by Wayne Campbell from Penn State's Noll Laboratory for Human Performance Research; and 2) "Nutrition for the Busy Lifestyle," led by Star Campbell who will teach methods to make good nutrition an active part of a busy lifestyle.

Each session includes demonstration and participation. The strength training sessions include participation and demonstration of various exercises (comfortable dress and shoes are recommended). The nutrition sessions will include taste tests and recipe analysis.

The program begins at 9 a.m. and continues until 3:45 p.m. Handouts and lunch will be provided. Partial reimbursement for HealthAmerica members (HealthAmerica, HealthAssurance, Advantia) is available. For registration information, please call (800) 778-8632.

Libraries offer seminars on several LIAS databases

The University Libraries are offering the following series of seminars during the spring semester to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact Doris Herr at (814) 863-0325. Seating is limited, so register early. Information on the seminars can be found by typing HELP WORKSHOP when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.

■ Penn State Libraries Catalog in LIAS

Jan. 21, Feb. 26: 10 a.m.-noon; Jan. 30: 4-6 p.m.; Feb. 7: 8:30-10 a.m.; Feb. 10: 3-5 p.m.; all in Tower Room 402, Central Pattee Library.

■ AGRICOLA electronic database

Jan. 28: 3-5 p.m. in Tower Room 402, Central Pattee Library.

■ Beilstein CrossFire (organic chemistry)

Feb. 10: 10 a.m.-noon in Room 5, Central Pattee Library.

■ Career Sources on the Web

Feb. 20: 5:30-7 p.m. in Tower Room 402, Central Pattee Library.

■ Career Sources on the Sciences on the World Wide Web

Feb. 14, 10 a.m.-noon, in Tower Room 402, Central Pattee Library.

■ Census Data on the Internet

Feb. 25: 8:30-10 a.m. in Tower Room 402, Central Pattee Library.

■ Chemical Abstracts

Jan. 27: 10 a.m.-noon in Reference Lecture Room, East Pattee Library.

■ Citation Indexes

Participants can learn techniques for searching Science Citation Index, Social Sciences Citation Index and Arts and Humanities Citation Index. Feb. 3: 10 a.m.-noon in Reference Lecture Room, East Pattee Library.

■ Congress and the Legislative Process on the Internet

March 25: 8:30-10 a.m. in Tower Room 402, Central Pattee Library.

■ Earth Sciences

Jan. 22: 5-7 p.m.; Feb. 21: 8-10 a.m.; in Tower Room 402, Central Pattee Library.

■ Education databases

Jan. 22: 1-3 p.m.; March 17: 10 a.m.-noon; in Tower Room 402, Central Pattee Library.

■ Electronic Text in the Humanities

March 27: 10-noon, Tower Room 402, Central Pattee Library.

■ Engineering databases

Feb. 11: 10 a.m.-noon; April 1: 6-8 p.m.; in Tower Room 402, Central Pattee Library.

■ History

Feb. 5: 10 a.m.-noon; Tower Room 402, Central Pattee Library.

■ Interlibrary Loan

Jan. 27: 3-5 p.m. in Tower Room 402, Central Pattee Library.

■ International Sources on the Internet

Jan. 21: 5:30-7:30 p.m. in Tower Room 402, Central Pattee Library.

■ Literary and Historical Manuscripts

Jan. 22: 10 a.m.-noon in Tower Room 402, Central Pattee Library.

■ Literature databases

March 20: 10 a.m.-noon in Tower Room 402, Central Pattee Library.

■ Literature Resources on the Internet

Feb. 27: 10 a.m.-noon in Tower Room 402, Central Pattee Library.

■ Maps and Spatial Data on the Web

March 6: 10 a.m.-noon in Tower Room 402, Central Pattee Library.

■ MEDLINE database

MEDLINE indexes more than 3,600 journals in the fields of health, biomedicine, clinical medicine, nursing, veterinary science and dentistry.

Jan. 29: 8-10 a.m. in Tower Room 402, Central Pattee Library.

■ Molecular Biology

Jan. 23: 3-5 p.m. in Tower Room 402, Central Pattee Library.

■ Multicultural and Diversity Resources

Jan. 23: 5:30-7:30 p.m. in Tower Room 402, Central Pattee Library.

■ Music

March 4: 10 a.m.-noon in Tower Room 402, Central Pattee Library.

■ NEXIS

Feb. 4: 1-3 p.m.; March 5: 10 a.m.-noon; in Tower Room 402, Central Pattee Library.

■ Psychology

Feb. 21: 10:30 a.m.-noon in Tower Room 402, Central Pattee Library.

■ Sociology and Anthropology

Feb. 13: 1-3 p.m. in Tower Room 402, Central Pattee Library.

■ Spanish & Latin American Resources

Feb. 26: 1-3 p.m.; March 18: 10 a.m.-noon; in Tower Room 402, Central Pattee Library.

■ Women's Studies

Feb. 6: 8:30-10 a.m. in Tower Room 402, Central Pattee Library.

Appointments

Interim director named for University's Disability Services

Diane Resides, counselor for the Center for Adult Learner Services, has been named interim director of Penn State's Disability Services.

The office helps students with disabilities make a successful transition to and through their University experience. The office also helps accommodate employees with disabilities; educates staff and students on the needs of people with disabilities; is an advocate for and on behalf of people with disabilities and fosters an accepting and affirming environment at the University.

As a counselor for adult learners since 1990, Resides managed the daily operations of the Center for Adult Learner Services in the director's absence, and provided professional assistance to adult students and referral services to those with academic, personal, social or psychological problems. She was the liaison with a number of student service offices and also has developed a seminar series on women's career and life planning.

In spring 1994, she served as assistant to the director of the Office for Disability Services, where she worked with students with disabilities on their needs assessments and arranged appropriate services. She worked with the scholarship selection committee, collaborated with other University offices to improve services to students, and developed a newsletter and brochure on disability services for students. Resides also has served as coordinator in the residence hall program, where she supervised the daily operation of a residence hall community of 860 students.

Before joining Penn State, she held several positions in the community. She is a 1981 graduate of Penn State with a bachelor's degree in education in administration of justice. She received an M.Ed. in counselor education with an emphasis in rehabilitation in 1989 and expects to receive her D.Ed. in adult education from Penn State this year.

Fayette announces holder of Elouise Ross Eberly Professorship

Theresa Balog, assistant professor of nursing at the Penn State Fayette Campus, has been named the holder of the Elouise Ross Eberly Professorship in the School of Nursing there. The position is one of two such professorships funded by the Robert E. Eberly Foundation of Uniontown, which in 1994 committed \$1 million to the School of Nursing. The school enrolls nearly 800 students statewide, including those in the associate degree nursing program at Penn State Fayette, where Balog's professorship is located.

Balog will retain the rank of assistant professor and will continue all associated responsibilities in her position at the campus. She originally joined the faculty as an assistant professor and coordinator of nursing in July 1994. She is a 1969 graduate of the Allegheny Valley Hospital School of Nursing and earned a bachelor's degree in nursing from Duquesne University in 1963. In 1968, she received a master's degree in nursing from the University of Pittsburgh and a doctorate in higher education administration in 1984.

She served as assistant vice president of academic affairs at Chatham College and served as a con-

sultant to that institution for the development of a four-year, baccalaureate-degree nursing program. Balog also served as an adjunct assistant professor in the graduate program in nursing education/administration at the University of Pittsburgh (1987-1990), and was an assistant professor and director of the pediatric affiliate nursing program there from 1977 to 1981. During that time, she designed and implemented a pediatric affiliate nursing program for 13 hospital schools of nursing in Western Pennsylvania. From 1972-1977, she was a tenured associate professor of nursing at Duquesne University. From 1968-1972, she was an instructor of maternal/child nursing with a joint appointment to the pediatrics and obstetrical faculty.

For seven years, Balog served as assistant dean of instruction, nursing, at the Community College of Allegheny County, Center-North Campus, where she developed and implemented a satellite program in nursing and redesigned its nursing program to a two-year associate degree program. Her clinical nursing experience includes several years as a staff nurse and nurse supervisor at Children's Hospital of Pittsburgh. She also was director of the Uniontown Hospital School of Nursing.

She is listed in several *Who's Who* guides and currently serves on the board of trustees and is chairwoman of the Scholarship Committee for the Nightingale Awards of Pennsylvania.

Graduate school dean is appointed interim vice president for research

In addition to his post as dean of the Graduate School, Rodney Erickson has been named interim vice president for research at Penn State. David Shirley, current senior vice president for research and graduate education, retired at the end of December and returned to Lawrence Berkeley Laboratory, where he is director emeritus.

In addition to his administrative positions, Erickson is a professor of geography and business administration. He was head of the Department of Geography in the College of Earth and Mineral Sciences from 1990-94. From 1981 to 1995, he served as director of the Center for Regional Business Analysis and, from 1984-1995, was associate director of the Division of Research in The Smeal College of Business Administration. He was appointed dean of the Graduate School on July 1, 1995.

Erickson has published widely in the areas of economic geography and regional science and is a member of the editorial boards of four major scholarly journals. He is a former Fulbright Research Scholar in the United Kingdom, a Simon Senior Research Fellow at the University of Manchester and a National Science Foundation/American Statistical Association Research Fellow at the U.S. Bureau of the Census. Currently, he is conducting research on the foreign trade and investment relationships of manufacturing and service industries across U.S. regions.

DuBois Campus welcomes new health services coordinator

Libeth "Libby" Hoover has been named health services coordinator at the Penn State DuBois Campus. In this position, she will oversee wellness activities to help ensure a safe and healthy environment for students, faculty and staff.

After receiving her R.N. from St. Luke's Hospital in Bethlehem, Pa., Hoover joined the Air Force, serving two years in Utah and New York before returning to Pennsylvania. She then worked with Parkersburg Medical Associates, Punxsutawney Home Health and the Pennsylvania Department of Health. During this time, she received her bachelor's degree in nursing from Indiana University of Pennsylvania and school nurse certification from Slippery Rock University.

McKeesport appoints director of development, university relations

Peter B. Irvine has been appointed director of development and university relations for the Penn State McKeesport Campus. The position has responsibility for all development functions, including grant writing, and oversight for university relations activities.

Irvine is a certified fund raising executive and gift planning consultant for educational, religious and nonprofit organizations. He is a member of the National Society of Fund Raising Executives and served as director of planned giving from 1992 to 1995 at the University of Pittsburgh, where he directed the raising of nearly \$5 million annually in planned gifts. During his tenure, the university completed a \$250 million capital campaign. From 1989 to 1992, he was associate director of planned giving there.

Irvine served as the director of development and grant writer/researcher from 1983 to 1989 at Seton Hill College. He holds a doctor of jurisprudence from the University of Tennessee College of Law and a bachelor of arts degree from the University of Tennessee at Chattanooga. He earned a certificate in theology from the University of the South School of Theology. He has served as president of the Pittsburgh Planned Giving Council and as president of the University of Pittsburgh Stock Club.

Interim dean named for Libraries

Gloriana St. Clair, associate dean for Information Access Services, has been appointed to serve as interim dean of the University Libraries. Former Dean Nancy Cline left to accept a position at Harvard.

As interim dean, St. Clair will lead the Libraries through a period of transition, focusing on construction of the new addition to Pattee Library and the creation of a five-year strategic plan. In addition to her duties as interim dean, she also will serve as interim associate dean of planning and administrative services.

In the past, St. Clair has taught as an assistant professor at Western Carolina University and the College of Charleston in Charleston, S.C. She also has served as an adjunct full professor at Walsh College in Troy, Mich., and a teaching associate at the University of Texas at San Antonio. Currently, St. Clair is editor of *The Journal of Academic Librarianship*. She also serves as a member of the Association of Research Libraries, the Coalition for Networked Information Task Force, the Committee on Institutional Cooperation (CIC) Library Directors' Group, the Research Library Group, the American Library Association, and the Association of College and Research Libraries, among others. From 1990-1996, she was editor of *College & Research Libraries*.

While at Penn State, St. Clair has served on several committees including the Council of Academic Deans, the Administrative Committee on the Commonwealth Educational System and the World Campus Study Team. She received a B.A. in English and a Ph.D. in literature from the University of Oklahoma, a master's of library science from the University of California, Berkeley, and an MBA in management from the University of Texas, San Antonio.



Diane Resides



Gloriana St. Clair

Partings

Great Valley CEO heading to West Virginia

Lawrence S. Cote, CEO at Penn State Great Valley will leave effective March 15 to become associate provost for extension and public service at West Virginia University.

In his new post, Cote will lead West Virginia University's state-wide service mission, whose constituents include federal and state government agencies, business and industry, public and community organizations, local education boards and county commissioners and other colleges and universities. More specifically, he will provide overall leadership for the university's outreach programs, including general extension,

cooperative extension and the state 4-H Conference Center, as well as leading an aggressive, broad-based effort to enhance WVU's outreach across the state.

Cote, who joined Great Valley in the late 1970s, includes among his accomplishments at the campus the tripling of the graduate enrollment, the development of funded research and the establishment of an external support program. During his tenure, he spearheaded a high-profile outreach effort that included collaborations with area business and industry, chambers of commerce and local legislators.

Cote joined Penn State Great Valley after serving previously in administrative positions at several Penn State locations. He was named campus executive officer in 1983, when the campus was still based in King of Prussia, and led its expansion and relocation to the Great Valley Corporate Center in 1988. Cote is the graduate center's third executive officer.

A Phi Beta Kappa graduate of Penn State with a bachelor's degree in speech communications, Cote earned a master's degree from Lehigh University and a doctorate in educational administration from

Temple University. His service to the community includes sitting on the board of directors of the Western Main Line YMCA, serving as secretary, vice chair and on the board of directors of the Chester County Chamber of Business and Industry; as president, second vice president and on the board of the Great Valley Regional Chamber of Commerce; on the Chester County Council Executive Board of the Boys Scouts of America and on the board and as secretary/treasurer of the American Defense Preparedness Association's Philadelphia Chapter, among dozens of other roles.

Longtime professor of geology retires with emeritus rank

Albert L. Guber has retired with the rank of professor emeritus of geology after 34 years of service in the College of Earth and Mineral Sciences.

He joined the Penn State faculty in 1963 as an assistant professor and became associate professor in 1969 and professor in 1983. He served as chairman of the Geology Graduate Program from 1985 to 1988 and as associate head of undergraduate programs from 1991 to 1996. At the time of his retirement, he administered the geosciences undergraduate major and the earth sciences major.

Over the past five years, he has been involved in developing a new curriculum for program majors including a hydrogeology option, establishing a minor in geosciences, implementing a senior thesis requirement and establishing an undergraduate advisory board for students in geosciences, a graduate student mentor program, an undergraduate student research room and dedicated undergraduate computer laboratories.

For many years, he also has served as faculty adviser and friend to the Geosciences Club, the Marine

Science Society, Sigma Gamma Epsilon and Sigma Nu social fraternity.

Guber is widely known to alumni by his development of the Marine Sciences Program and his course on coastal geology. The course, given at Wallops Island, Va., was instrumental in attracting many students to the geosciences and encouraging them to adopt worthy field research habits. In 1994, he received the Provost's Award for Collaborative Teaching and, in 1996, was recognized by the Wilson Award for Outstanding Teaching.

He is author of a number of geological research papers and was elected as a Fellow of the Geological Society of America in 1988. Guber holds a B.S. in geology from the University of Pittsburgh and Ph.D. in geology from the University of Illinois at Urbana.

He is a member of the American Association for the Advancement of Science, the Geological Society of America, the Paleontological Society, the Society of Economic Paleontologists and Mineralogists, Sigma Gamma Epsilon and Sigma Xi.

Sports historian and critic retires after 28 years as University professor

In 28 years at Penn State, sport historian Ronald A. Smith, professor of exercise and sport science, earned a reputation as one of intercollegiate athletics' keenest critics. Perhaps that's because Smith, who has retired, is also a passionate fan.

Smith, author of dozens of articles and several books on intercollegiate athletics, including the landmark history *Sports and Freedom* (Oxford University Press) published in 1988.

No blind love, Smith's passion is born of both personal experience and historical perspective. Recruited by Northwestern University to play basketball and baseball, Smith graduated with a degree in history in 1958. A short stint with the Chicago White Sox minor league club followed. He then taught history and coached at the high school level before earning a master's in history from the University of Wisconsin in 1966. He followed that up with a Ph.D. in physical education from Wisconsin in 1969. The previous year, he had joined the Penn State faculty.



Ronald A. Smith

Since then Smith has trained an unflinching investigative eye on intercollegiate sports, exploring the history of the NCAA, and exposing what he sees as ongoing problems within the organization and its member schools.

Though officially retired, Smith continues to shepherd the four graduate students he advises through to the completion of their programs. He's also at work on several new books — one on the influence of radio and television on college sports, another volume on the history of intercollegiate athletics in the 20th century, and a collection of love letters by turn-of-the-century Harvard football coach Bill Reid, whose diary Smith edited in 1994.

A resident of Lemont, Smith also plans to spend more time on the Lemont Granary restoration project and to roll up his sleeves for Habitat for Humanity.

Smeal records manager ends years of service

Coleen M. Fornwalt, student records manager

for The Smeal College of Business Administration's undergraduate programs, has stepped down after nearly 30 years of service to Penn State. Fornwalt, who formally retired during the fall semester, was a member of the college's staff since 1977 and was responsible for the official materials of thousands of business students.

She began her career at the University in 1968 as a records clerk in the University's Transcripts Department, then moved to the Records Section. In 1969, she joined the College of the Liberal Arts, where she was supervisor of records in the dean's office until 1977 when she became a staff member of The Smeal College.



Coleen M. Fornwalt

Awards

Two on Eberly faculty garner national awards

Assistant professor is 1996 Searle Scholar

J. Martin Bollinger Jr., assistant professor of biochemistry and molecular biology, is one of 15 scientists nationwide to receive a 1996 Searle Scholar Award.

According to the Searle Scholar Program, this year's winners, chosen from 160 candidates at 86 universities, were selected for exhibiting "evidence of having the potential to make significant contributions to biomedical research over an extended period of time."

The awards are intended for young biomedical scientists who are newly appointed assistant professors. Each Searle Scholar is awarded a three-year grant of \$180,000 to support his or her research efforts. Bollinger's research concerns mechanisms of assembly of complex metal ion co-factors in enzymes and regulatory proteins. He works with several molecular systems that have relevance to human health.

Bollinger earned a bachelor's degree in chemistry in 1986 from Penn State and a doctoral degree in biochemistry in 1993 from the Massachusetts Institute of Technology. He was a postdoctoral fellow at Harvard Medical School before joining the Penn State faculty in 1995.



J. Martin Bollinger Jr.

Young scientist is named 1996 Cottrell Scholar

Karl Todd Mueller, assistant professor of chemistry, has been selected as one of 18 young faculty scientists nationwide to receive the 1996 Cottrell Scholar Award from the Research Corporation, a foundation for the advancement of science.

The recipients of the award this year include seven chemists, 10 physicists and an astronomer. They were selected from among university faculty nationwide because of their "excellent research proposal, good plans to improve science teaching and a vision for the improvement of the academic science community."

Mueller was recognized for his contributions to undergraduate and graduate teaching and for his commitment to pursuing a career as a teacher-scholar. This award will help support Mueller's research in nuclear magnetic resonance spectroscopy.

The Cottrell Scholar Award is named for Frederick Gardner Cottrell, the scientist, inventor and philanthropist who established Research Corporation in 1912. The foundation's goal is "to make inventions more available and effective in the useful arts and to provide means for scientific research and experimentation."



Karl Todd Mueller

Penn College center among top 10 facilities in nation

The Autodesk Authorized Training Center operated by the Pennsylvania College of Technology's Technology Transfer Center has been named one of the top Autodesk training centers in the nation. The local center received two awards by ranking in the "Top 10 Curriculum Rating" and "Top 10 Facilities and Equipment Rating" categories established by Autodesk. The ratings are tabulated with the assistance of a rating sheet filled out by each student who attends an Autodesk class.

There are 165 Autodesk authorized training centers in the nation. The centers provide instruction in Autodesk software products, including AutoCAD (computer-aided drafting), 3D applications and mechanical design. Penn College's center is managed by **Richard C. Mason II**, CAD specialist for the Technology Transfer Center.

Student Affairs recognizes five on staff for their outstanding service to students

Five staff members have received awards for outstanding service to students. Honored were **Maureen Gaffney**, Penn State Hazleton; **Fredina Ingold**, Penn State Altoona; **Terri Caputo**, Penn State Worthington Scranton; **Kathryn Watson**, Penn State Shenango; and **Margaret Spear**, University Park.

Student Affairs has recognized staff members for "Outstanding Services to Students" since 1991. Awards are made through the Council for Chief Student Affairs Officers and coordinated by University Park's Campus Student Affairs.

Gaffney, coordinator of Health Services at Hazleton, received an Achievement Award for her work in developing a total health services program, a campus counseling network, a women's health clinic and a self treatment station. She implemented the first Web site in the Commonwealth Educational System, is an advocate for sexual harassment victims and conducts seminars and workshops on health issues and wellness.

Ingold, currently director of athletics and assis-

tant director of marketing and recruitment, Altoona, won an Achievement Award for recruiting efforts that helped Altoona set enrollment records for the past two years.

Caputo, assistant to the director of student programs at Worthington Scranton, won the Campus Program Award for coordinating a scholars program, encompassing 22 school districts.

Watson, chief student affairs officer at Shenango, received the Outstanding Chief Student Affairs Officer Award for her work in identifying and assessing issues important to students throughout the Penn State campus system. She has chaired the Student Affairs Assessment Committee for the past two years.

Spear, director of University Health Services, won the award for Outstanding Service to the Campuses. Spear and her staff organized the Prematriculation Immunization Program that protects incoming students at all campuses. Full immunization began in the fall 1996.

Professor is 1996 Educator of the Year

John W. Tippecannc III, professor of education, has received the 1996 Educator of the Year Award from the National Indian Education Association. The award is presented annually to an outstanding educator in recognition of a commitment to excellence in learning and outstanding service to Indian education.

Tippecannc joined the faculty of the College of Education in 1996. He holds the position of professor, as well as director of the American Indian Leadership Program within the Department of Education Policy Studies.

Before coming to Penn State, Tippecannc served as professor of educational leadership and policy studies at Arizona State University. He also is former director of the Office of Indian Education Programs within the U.S. Department of the Interior, and director of the Office of Indian Education within the U.S. Department of Education. He earned both M.Ed. and Ph.D. degrees from Penn State's educational administration program, and holds a B.S. from Oklahoma State University. In 1995, he was recognized as a Penn State Alumni Fellow.



John W. Tippecannc III

Penn State Press is Employer of the Year

The Penn State Press received the Employer of the Year Award in Leadership/Work Experience from the Private Industry Council of Centre County Inc.

This award was made on the basis of a six-month internship coordinated by the marketing department of the Press.

The Private Industry Council offers a wide variety of programs that help citizens of Centre County obtain rewarding, full-time employment, from workplace literacy to on-the-job and classroom training.

Researchers study how sediment basins filter silt

By ANDREA ELYSE MESSER
Public Information

Muddy water. That's what you get when a typical summer thunder storm dumps on a construction site and that is why developers in Pennsylvania and many other states are required to dig sediment basins to remove silt from runoff.

"Typically, urban sediment basins are designed so that they can be converted to storm water retention basins when construction is completed," Albert R. Jarrett, professor of agricultural and biological engineering, said. "An outflow device, usually a perforated riser, is installed in the spillway of a basin to create a sediment basin during the construction phase and removed when construction is complete." A perforated riser is a vertical pipe with holes in it.

Storm water retention basins can be seen nearly everywhere and are used for dispersed flood control. Most of these storm water retention basins begin life with the aim of removing sediment from construction site runoff.

To test sediment removal methods, the researchers built their own 7,000 cubic foot sediment basin, the size prescribed for a one-acre construction site.

"We tested four sediment removal methods in the basin with 12 simulated



Albert R. Jarrett, professor of agricultural and biological engineering, checks the basin skimmer at the research sediment basin at the Russell E. Larsen Agricultural Research Center at Rock Springs.

Photo: Greg Grieco

runoff events, each equivalent to a two-year, 24-hour storm," Jarrett said. Such a storm is the capacity requirement for sediment basins in Pennsylvania.

The removal methods tested by Jarrett and graduate student J. Millen were the perforated riser, a skimmer system, a perforated riser with barriers and the

skimmer with barriers. Sediment basin technology is limited to equipment that has no moving parts. Filling and draining of the basin are aided only by gravity and physical design.

The researchers found that the skimmer allowed, the least amount of soil, about 37 pounds, to escape from the basin, but that the addition of barriers in the bottom of the basin did not improve or degrade the skimmer's efficiency. The perforated risers allowed 70 pounds of sediment to escape the basin. The barriers did, however, significantly improve the performance of the perforated risers allowing only 54 pounds of sediment to escape.

The skimmer, which was designed by J. W. Faircloth of the Orange County Planning Department in Hillsborough, N.C., consists of a device that floats on top of the water impounded in the basin and is probably more efficient because it removes water from the surface zone, which is the cleanest. The perforated riser removes water from near the bottom.

The researchers are also building a second, experimental basin that will hold only 1,800 cubic feet of water. This basin will help evaluate sizing requirements, which are currently 7,000 cubic feet per acre in Pennsylvania, but much smaller in other states.

Research



KISS
gene
promising
in battle
against
spread
of cancer

Researchers in the College of Medicine at The Hershey Medical Center discovered a new gene that suppresses the metastasis, or spread, of melanoma, an often-fatal skin cancer.

According to a report, the gene reduces the spread of melanoma in laboratory mice and may help in determining whether human melanomas are prone to spreading. The gene, called KISS-1, was isolated from the cells of malignant melanomas by Jeong-Hyung Lee, a postdoctoral pathology fellow from Korea, and Dan R. Welch, assistant professor of pathology at the College of Medicine's Jake Gittlen Cancer Institute.

Though the KISS-1 gene does not completely prevent metastasis, "it does keep it from spreading at least 50 percent of the time," Welch said. "KISS-1 may be the most potent gene to block or suppress metastasis in human cancer."

The name of the KISS-1 gene was inspired by the Hershey candy. The "SS" in KISS-1 stands for "suppressor sequences," according to Welch, and the rest "simply makes it easily identifiable with Hershey."

Reduced gender gap in wages is deceptive

The apparent shrinking of the gender gap in salaries is due less to improvement in women's wages than to a decline in the wages of many men due to structural changes in the labor force.

"Furthermore, the growing income inequality among men is being reflected also among women," Martina Morris, associate professor of sociology and statistics, said. "While a small number of women have moved into high-income brackets, most have not."

Morris conducted the research with Annette Bernhardt, senior research associate with the Institute on Education and the Economy, Teachers College, Columbia University, and Mark S. Hancock, associate professor of statistics.

America's shift to a service-based economy in the 1980s generated a striking increase in earnings inequality for American workers. Men were affected more than women.

"In the end, we find that in fact women's gains were often really men's losses in disguise," Morris said.

Tests of mental skills may predict dementia

A new study suggests that a series of fairly simple cognitive tests can predict which older adults will develop Alzheimer's disease or other dementia.

Those who scored poorly on the tests were 11 times more likely to show symptoms of dementia two years later than were their healthy counterparts.

"We're able to show that for the 'oldest old'—those age 85 and older—mild cognitive problems are reliable early markers of dementia," Steven H. Zarit, professor of human development and a co-investigator on the project, said.

The tests can help distinguish between ordinary forgetfulness and the beginning of more serious, disabling memory loss, Zarit said.

The research was conducted in Sweden by Boo Johansson of the University College of Health Sciences in Jonkoping, Sweden, and by Zarit.

Registered nurses examined the participants four times over a six-year period, collecting data on health, functional abilities, mood and related measures. They also gave each participant five tests of mental skills.

The researchers found that test scores not only could predict who

would become impaired, but also who was likely to die in the next two to four years. Participants who scored poorly on the tests at the beginning of the study were three times more likely to die within the next two years—and five times more likely to die in the next four years—than the others were.

Having early warning about the approach of dementia—or even death—can give physicians, psychologists, social workers and other clinicians an important tool in working with older adults, Zarit said.

■ Outreach

Students participate in urban renewal project

Both students and inner-city juvenile offenders benefit from cooperative effort

Students in the Department of Architecture in the College of Arts and Architecture are participating in an innovative educational project dealing with urban renewal. Bret Peters, part-time instructor of architecture and member of the Harrisburg architectural firm IBA (Benate), is bringing together architecture students with inner city juvenile offenders and school drop-outs involved with the Youth Build program in York, Pa., in a mutually educational experience.

Peters and IBA have been collaborating with Crispus Attucks, a community development organization in York, on revitalizing the downtown Boundary Avenue area. In an effort to involve his students with "real" issues, Peters recalled a wish of the Youth Build director Cynthia Dotson to build a facility which would include Youth Build's academic and vocational training, housing and administration, a Youth Build academy of sorts. Peters convinced Crispus Attucks to allow his students to offer designs for the building to help raise awareness of the positive potential the building could have on the York community. Most recently, Peters provided the students with "clients," young people from Youth Build, offering suggestions on the design of a residence for non-violent offenders to be incorporated into Youth Build.

In November, architecture



A keen eye

Penn State alum David McInlay serves as one of the jurors of the Youth Build project final critique.

Photo: Andrea Hurley

students met for the first time with Youth Build trainees to discuss preliminary plans and designs, seeking input and suggestions from the trainees. The students learned details they may never have considered.

"Gardens," one trainee said. "We like to make gardens at the buildings." Another offered, "Don't paint the inside the same colors they use in the prisons."

In December, the students

What is Youth Build?

Youth Build is a community rehabilitation program in York, Pa., that targets "at-risk" teens — high school drop-outs and non-violent juvenile offenders — offering them job-training and a second chance at life. According to Cindy Dotson, coordinator of Youth Build, the program "rebuilds lives by rebuilding the communities they live in."

Youth Build trainees work on renovation crews, learning aspects of construction and building for future job opportunities. Youth Build crews concentrate on rebuilding abandoned or run-down structures in York that are too large and expensive for developers to handle. Often the buildings are located in decaying neighborhoods where renovation is sorely needed but may be considered risky by developers.

The Youth Build program is part of the Crispus Attucks community development organization in York, a non-profit organization focused on various forms of community development. Since Youth Build provides positive incentive by locating the development efforts in areas where the trainees come from, the effects are important to the trainees, giving them a sense of relevance for what they do.

and trainees met on the University Park Campus to review final plans and discuss the project.

Peters advocates input from all sides in architectural design. "I see architects as the stewards of public space," he said. "We have a responsibility to all those whom the space will affect, and we should seek input from people of the communities where we build."

By involving members of Youth Build, many of whom were residents of the Boundary Avenue neighborhood, Peters provides an example of the type of interactive

design approach he wishes his students to consider.

Additionally, by involving the members of Youth Build, Peters, the architecture department and the students are providing a physical exposure to higher education in a positive and non-threatening way. Through this exercise, the Youth Build trainees have their opinions taken seriously on an issue important and personal to them, and the architecture students participate in a "real-life" project and receive direct feedback from a client with real concerns.

Promotions

Staff

Pamela A. Anderson, staff assistant VI in College of Education.

Robin L. Anderson, coordination, process improvement in Computer and Information Systems-Administrative Systems.

Kathy J. Barrickman, staff assistant VI in Continuing and Distance Education.

Adrienne M. Bender, LPN/MEDS at The Hershey Medical Center.

Stephanie L. Bohannon, business analyst II at The Hershey Medical Center.

Mark R. Boltz, network coordinator in The Smeal College of Business Administration.

PENNSTATE



INTERCOM

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INTERCOM

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SPECIAL EDITION

Volume 25, Number 17

THE NEW PENN STATE



MORE INSIDE ON HERSHEY/GEISINGER MERGER

The new Penn State Geisinger Health System will serve 40 counties across the Commonwealth. For some vital statistics on the two merging organizations, turn to **pages 4 and 5.**



WHO'S RUNNING THE SHOW?

For a profile on Penn State's newest dean, see **page 3.**



MORE TO COME

For readers who want to know more, President Spanier will dedicate his Jan. 23 radio program on WPSU-FM to a discussion about Penn State's changes. To call in, dial (800) 543-8242. The show begins at 7 p.m.

Geisinger and Hershey join ranks

By LISA M. ROSELLINI
Public Information

Called the "most comprehensive undertaking in Penn State's history," the merging of The Milton S. Hershey Medical Center with the Geisinger Health System creates one of the state's largest not-for-profit health care systems, covering 40 counties. For Pennsylvania, the move creates more choices for consumers and employers who purchase health care coverage for employees.

The merger was motivated by Penn State's desire to provide a secure base of support for its College of Medicine, according to President **Graham B. Spanier**. Revenues from the \$1 billion health system will directly support the Uni-

versity's College of Medicine, which will remain under the ownership and operation of Penn State.

"The establishment of the Penn State Geisinger Health System is a marriage of two excellent health care enterprises, both committed to quality education, research and service," Spanier said.

The merger, which must undergo regulatory review, was approved by the Board of Trustees on Friday. It will increase access to a broader range of medical services, reduce costs for both organizations, and supply Pennsylvania's rural communities with better patient care. The new not-for-profit entity will include 77 clinics, 1,000 physicians and 1,345 hospital beds.

"With the creation of the Penn State Geisinger Health System, it will now be easier to get the

See "Geisinger" on page 5

OK given for redesign of University

In just a few short months, some of the University's Commonwealth locations will be offering four-year degrees and some will be calling themselves colleges of Penn State. In that same short timeframe, everyone from the campus executive officer on down will complete the work involved in making the transition smooth.

On Jan. 14, the University got the thumbs up from state Secretary of Education **Eugene W. Hickok** on its plans to reorganize the Commonwealth Educational System. Under the plan, 14 of Penn State's 17 Commonwealth Campuses are now authorized to offer baccalaureate degrees. Driven by changing demographics and a shift in the educational needs of Pennsylvania's residents, the comprehensive plan spells out the future structure of the University.

See "Redesign" on page 8

Penn State gains law school

By LISA M. ROSELLINI
Public Information

Nearly three decades after the possibility of an alliance was first considered, the University and the 163-year-old Dickinson School of Law in Carlisle, Pa., officially agreed to join ranks on Jan. 17 when the Penn State Board of Trustees unanimously voted to merge the two institutions. The trustees' action was the final approval needed to seal the deal.

Described as a "good marriage," the merger was approved Jan. 11 by Dickinson's 37-member board of trustees and will actually begin July 1. The law school will assume the name The Dickinson School of Law of the Pennsylvania State University.

Since the announcement of the merger, the reaction from trustees, administrators, employees, students and alumni of both institutions has been favorable. As the oldest independent law school in the nation, Dickinson has been a post-graduate choice for hundreds of Penn State alumni. About 10 percent of all Dickinson alumni also have a Penn State degree, making it the single largest supplier of students to the law school. Dickinson has approximately 5,700 living graduates.

"This action fills in a very important missing piece," President **Graham B. Spanier** said. "Over the years, Penn State has missed out on certain opportunities because we did not have a law

See "Dickinson" on page 2



Dickinson

School of Law of the Pennsylvania State University

Continued from page 1

school. Opportunities like joint research projects, joint community service projects or course offerings that would have benefited students."

Spanier said that he has been "flooded" by e-mail from Penn State faculty members who are interested in cooperating with the new law school faculty. **R. Scott Kretchmar**, chairman of the University Faculty Senate, said he too has received numerous telephone calls from Penn State's eager to interact with Dickinson faculty.

Faculty here with similar interests are anxious to discuss issues with faculty from Dickinson," Kretchmar said. "This has been a missing element at

Penn State and, given our fiscal constraints, it is probably the only way we could get a law school. I'm delighted about this merger and extremely pleased with the academic reputation of Dickinson law school."

One faculty member who believes the move will open up doors for both faculty and students is **Robert Richards**, associate professor of journalism and law in the College of Communications. For Richards, founding director of the Pennsylvania Center for the First Amendment, the resources provided by a law library for both himself and his students is unmatched, and the opportunities for collaboration are dizzying. Officials from the college have already been in touch with faculty at Dickinson to arrange a meeting.

"It will be nice to have the added resources of legal holdings and access to law professors and the program that law schools undertake," he said. "Law cuts across so much of our studies on this campus — like labor, business, health policy administration and education. Almost every program has some connection to law, and to have those resources now on hand will be a great asset."

In turn, Dickinson employees are looking forward to the added benefits of being affiliated with a large institution. In announcing the venture, law school Dean **Peter G. Glenn** stressed the savings Dickinson would accrue as a result of the "economies of scale" in areas such as purchasing, printing and other basic administrative services. Penn State also can lend its expertise in the area of risk management and fund raising.

In addition to the financial gains, Dickinson faculty, staff and students will now have access to Penn State's library with holdings of more than 3.7 million, various databases across the system and computing facilities. As part of the merger, Penn State has pledged to bring Dickinson up to Penn State's current technology level and will conduct a facilities review to take care of deferred maintenance items. The law school will also be included in Penn State's upcoming Capital Campaign.

"This is an almost perfect arrangement," said **Michael J. Navin**, professor of law and chairman of the admissions and financial aid committee at Dickinson. "I think the ideal situation is to take the advantages of a small student-centered legal education and combine it with the intellectual excitement and opportunities of a major university. That's now been done."

While Penn State faculty eagerly



Tickett Hall of The Dickinson School of Law in Carlisle, Pa.

await input from their counterparts at Dickinson, Navin pointed out that his law colleagues and students are also anticipating an active exchange of ideas and "ready access to some of the best minds anywhere."

"From our perspective, we have access to resources that we would never have at a free-standing law school — your library, collaborative programs and perhaps courses with other colleges within the University," **Peter C. Alexander**, associate professor of law, said. "Just the ability to interact with people doing cutting-edge research and to share our research and provide support is really a golden opportunity. I'm personally very excited about the possibilities I see for my own work with the business college and the women's studies program."

"And of course, we're all hoping for football tickets," he added.

From the student perspective, the law professors think Dickinson's affiliation with a major university with name recognition like Penn State's will enhance student degrees. Dickinson already has a joint program with Penn State Harrisburg, which enables stu-

dents to earn a law degree and a master's degree in public administration. It also has a joint JD/MBA program with The Smell College of Business.

"No matter where you go, if you say I'm a graduate of The Dickinson School of Law of the Pennsylvania State University, people will know where it is," Navin said. "Not only will they know where it is, it will come with an existing reputation for excellence."

Julie Bubolz, president of Penn State's nearly 7,000-member Graduate Student Association, thinks that any expansion of Penn State's professional offerings is a benefit to students.

"I think the general impression is good. It's a very positive thing for the students, but it's also a positive thing for the state as well," Bubolz said. "This will increase the services that are available to the residents of the Commonwealth."

According to law school Dean Glenn, Dickinson has a long history of providing continuing education for lawyers. Its faculty are also active participants on several working committees of bar associations and have an

THE LAW SCHOOL AT A GLANCE

LOCATION: Carlisle, Pa. — 20 miles west of Harrisburg in Cumberland County. It is not affiliated with Dickinson College.

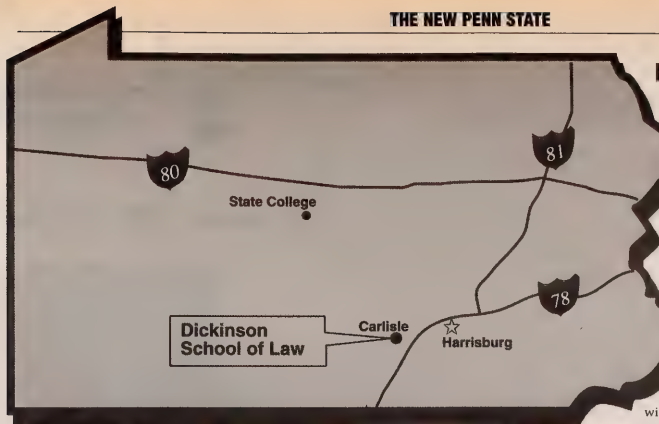
ENROLLMENT: Approximately 530 students from 30 states from Maine to Hawaii and from nearly 200 different colleges and universities.

FACULTY AND STAFF: 31 professors, professor-administrators and teaching fellows with varied backgrounds and degrees from 28 different law schools. Adjunct faculty include more than 50 judges and practitioners. Total employment: 110.

TUITION: \$14,500 for the 1996-97 academic year. Excludes books and room and board.

FINANCIAL STATISTICS: Total operating budget of \$10 million; net assets of \$24.4 million; endowment and similar funds, \$15.5 million; and debt: none

CLASS OF '98 STATISTICS: About 1,455 applications were received; 175 students entered. The mean grade point average of this class was 3.3, and the mean LSAT score was 155.



Intercom graphics / Annemarie Mount

HOW WILL IT OPERATE?

Although the full merger of Penn State and the Dickinson School of Law will take three years to complete, employees of Dickinson will become employees of Penn State effective July 1. The new school will operate similarly to the College of Medicine: it is a special mission college of Penn State that is operating at a site outside of University Park. In the coming three years, the law school, which will remain in Carlisle, will undergo a transition period in its governance. Dickinson's board of trustees will be augmented by the addition of **H. Jesse Arnelle**, chairman of Penn State's Board of Trustees, and two of Penn State's senior administrators. During the first stage of the consolidation, this board will oversee Dickinson's operations, but after the merger is complete, it will become an advisory board.

"At the end of the three years is when everything will really mesh, like budgets and governance, but the guidance and help of Dickinson's board will still be very valuable," **Christine Kellett**, Dickinson's associate dean for institutional planning, said. Dickinson's dean, **Peter G. Glenn**, will become a member of the Council of Academic Deans — an advisory body to Penn State's provost and president. Glenn will also become a member of the Big 10 Law Board, a consortium of deans of law schools of the Big 10.

Penn State is the tenth Big 10 institution to lay claim to a law school. Just two years ago, Michigan State University — which lacked its own law school — formed a partnership with the 290-student Detroit College of Law. Although the arrangement is different from Penn State's merger with Dickinson — the Detroit College of Law remained private and will move to a newly constructed building on MSU's East Lansing campus — it is bringing similar benefits as those expected to result from Penn State's recent merger. Now, the only institution in the Big 10 without a law school is Purdue.

The Penn State-Dickinson merger brings with it some costs, such as those associated with the upgrade of computer facilities for the law school, but offers vast opportunities for collaborative programs, research projects and service. President **Graham B. Spanier** said Penn State will not seek additional funds from the state as a result of the merger, but he hopes the alliance will "improve how Penn State is viewed by the state Legislature and the public, and will deem us worthy of continued or increased support."

Spanier said there are no plans to increase the nearly 530-student enrollment of The Dickinson School of Law and he does not foresee, as a result of the merger, any changes in the curriculum. **R. Scott Kretschmar**, chairman of the University Faculty Senate, said one of the first items of business for the Senate will be the delegation of curricular authority to the law school, much as the curricular decisions for the College of Medicine are handled. Dickinson will likely have two representatives to the Faculty Senate.

MEET PENN STATE'S NEWEST DEAN

Peter G. Glenn is a professor of law and dean of The Dickinson School of Law, a position he assumed July 1, 1994.

From 1987 to 1994, he was a partner in the international law firm of Jones, Day, Reavis & Pogue in Cleveland, Ohio. He also served in various capacities for the firm from 1969 to 1986. At the law firm, he was responsible for the development and administration of firm-wide lawyer training programs and for oversight of the firm's compliance with the mandatory continuing legal education regulations of more than 20 states.

From 1985-1988, and in 1993 and 1994, he was a lecturer at Case Western Reserve University School of Law in Cleveland. He was a professor of law at the University of South Carolina, Columbia, from 1980-1983. There he taught courses in civil procedure, professional responsibility and legal research and writing. He was an associate professor of law at Washington and Lee University, Lexington, Va., associate professor of law at the University of North Carolina at Chapel Hill, and a former law clerk to Judge Abraham L. Freedman of the U.S. Court of Appeals for the Third Circuit.

He earned his J.D. degree, cum laude, from the



PETER G. GLENN

University of Pennsylvania in 1968, and bachelor of arts degree in history from Middlebury College, Vt., in 1965.

He is a member of the American Bar Association and the Pennsylvania Bar Association and a former member of the Ohio Bar Association Legal Education Committee and Legal Ethics Professional Conduct Committee.

He also is a member of the American Bar Association Section on Legal Education and Admissions to the Bar New Deans Seminar Planning Committee, Independent Law School Committee and Continuing Legal Education Committee; the Association of American Law Schools Committee on Libraries and Technology; and former chair of the Judicial Campaign Monitoring Board of the Pennsylvania Bar Association.

He regularly serves as a participant in symposia or panels studying the future of lawyer education.

LAW SCHOOLS IN PENNSYLVANIA

The Commonwealth is home to seven law schools. In 1995, 86 percent of the graduating class of The Dickinson School of Law passed the Pennsylvania Bar Exam. The state's seven law schools are:

- Dickinson
- Duquesne University
- Temple University
- University of Pennsylvania
- University of Pittsburgh
- Villanova University
- Widener University

Dickinson
continued from page 2

extensive track record working with the Pennsylvania Legislature, government institutions and federal committees. Glenn also said Dickinson's clinical teaching facilities provide a significant amount of legal services to individuals across the state who would not otherwise be able to afford them.

In the past week, members of the alumni associations from both schools have expressed their approval of the move. Glenn said the vast majority of Dickinson alumni are pleased. Some of the more prominent graduates of Dickinson include **H. Jesse Arnelle**, chairman of Penn State's Board of Trustees and a 1955 graduate of Penn State and a 1962 graduate of Dickinson; U.S. Sen. **Rick Santorum**, an '86 Dickinson graduate and a Penn State alumnus; state Senate President **Pro Tem Robert C. Jubelirer**, who is also a Penn State graduate; and Gov. **Tom Ridge** from the class of 1972.

Questions and Answers

about the Penn State Geisinger Health System

Q: What will be the effect, if any, on Penn State employees and their benefits?

A: At this time we are anticipating offering the new Penn State Geisinger Health Plan to Penn State employees, where available, effective in 1998. As we go through the process, the University also will be considering the possibility of continuing to offer alternative health plans. It is not likely that employees will have to consider changing physicians as a result of this merger.

Q: How will the public benefit from the merger?

A: The merger will:

- make it easier for people to use a broader range of medical services, from family physicians and rural clinics to the most advanced specialists, without leaving Pennsylvania
- provide consumers and employers with more choices — people in the Geisinger area can more easily use the resources of another outstanding academic medical center, and people in The Hershey Medical Center's area can choose a new managed health care plan
- reduce costs while enhancing quality and service
- give patients the benefits of the latest research advances
- keep doctors serving rural areas
- protect the public interest in supporting medical education and research, which are becoming more difficult to fund as health care costs are cut.
- provide a stable and continuing base of support for Penn State's College of Medicine, which receives less support from the state than any other public university medical college in the country.

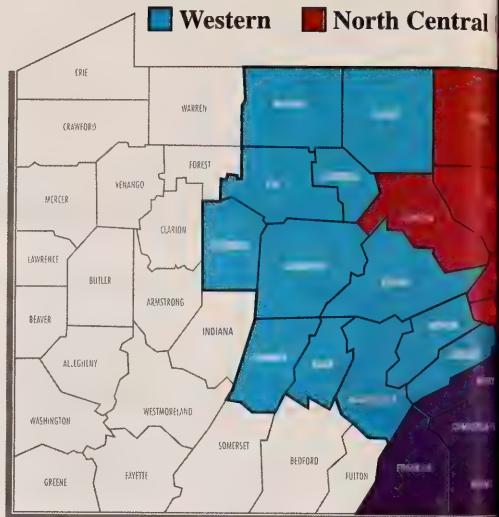
Q: How will the new organization be structured?

A: The Penn State Geisinger Health System will be based on geographic regions. Each region will be led by a physician/administrator team. The team will be responsible for identifying the health needs of the population, working with the health plan to enroll people, and then planning and distributing health services in that region to meet local needs. Each region has individual characteristics and needs, and we want to be very local in how we provide health care.

PENN STATE



Geisinger Health System



For more information

For more information on the merger, go to the World Wide Web at <http://www.hmc.psu.edu/> or <http://www.geisinger.edu/>.

Q: Geisinger Health Plan has almost 200,000 enrolled members. What will its role be?

A: We'll offer the plan in The Hershey Medical Center service area, helping to meet the health needs of more Pennsylvanians. We'll continue to grow through contractual relationships with other hospitals and physicians to handle services for the patients in our combined service area. We will move quickly to talk with physicians and hospitals in the Hershey area about working together and move forward with licensure in the south-central counties.

Q: Are state tax dollars involved in the merger?

A: No. At The Hershey Medical Center, facilities developed with state appropriations will remain under the ownership of the University. Other public funds, for research and education at Penn State's College of Medicine, will remain in the College of Medicine. On the Geisinger side, public funds that are given as grants for education and research will remain within Geisinger.

GEISINGER

FOUNDED in 1892, Geisinger is one of the nation's oldest hospitals. It has more than 700 beds, 1,000 full-time employees, and a wide range of medical specialties. The hospital includes a women's hospital, a children's hospital, and a training program for medical residents.

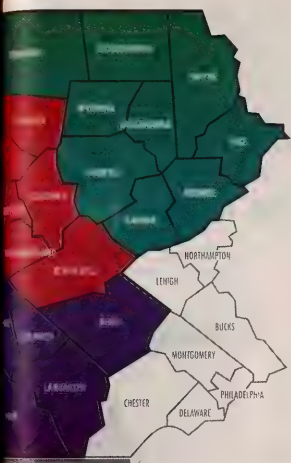
IN WILKES-Barre, Pa., Geisinger is the only hospital in the area that provides a full range of medical services, including surgery, obstetrics, and gynecology.

NEARLY 20 years ago, Geisinger began a program to pilot HMO and managed care.

DURING the past several years, research has shown that the hospital's approach to patient care is one of the best in the nation. Basic and

h System

Eastern ■ South Central



AT A GLANCE

Geisinger's regional health system serves more than 2 million patients in Pennsylvania and southern New York. There are more office practices serving 90 communities in the northern Commonwealth, with its 548-bed hospital—Geisinger in Danville. The medical center represents 75 medical specialties well known for its trauma center. The medical center at Weis Children's Hospital and treatment centers for cancer, kidney, heart and neurological disease, and infertility also is home to Geisinger's graduate medical program. It has 202 medical and surgical residents and fellows and subspecialty programs.

The 230-bed Geisinger Wyoming Valley Medical Center is part of the Geisinger system. Geisinger Wyoming Valley also has comprehensive emergency services, medical and surgery programs and pediatric care and complete cancer

Pennsylvanians have already chosen a managed-care Geisinger's Health Plans Division. It was the first rural health plan in the state and is the largest rural HMO in the nation. It has the lowest administrative cost of any HMO in Pennsylvania.

In 1996, 90 Geisinger researchers conducted 399 research projects, including research at the most basic molecular and cellular level. That same period, Geisinger researchers received grants totaling \$15 million from the American Heart Association and the National Institutes of Health to support Geisinger's nationally-recognized research programs.

Geisinger

continued from page 1

world's best care right here in Pennsylvania for most any medical condition," Spanier said. "It's vital that we retain community control of our health systems to make sure Pennsylvania doctors keep making health care decisions based on what's best for their patients."

Spanier said Penn State will also look to the merged entity to help control its own health care costs. Penn State spends approximately \$75 million per year on health care benefits for its more than 16,000 full-time employees.

While the College of Medicine remains with Penn State, it is actually Hershey Medical Center's patient care services and operations that will merge with Geisinger's patient care services. The merger is expected to take effect July 1 and will help the two organizations achieve their already planned cost reductions totaling \$105 million over the next three years.

In the past few years, both Hershey and Geisinger have been restructuring to improve efficiency in their operations. In 1993 alone, Hershey reduced expenses by more than \$37 million. Now through its new cost reduction program, the medical center is aiming at reducing its operating expenses by 12 percent, or \$50 million, by 1999. Officials predict an additional initial savings from the merger of \$10 million to \$20 million.

"In the near future, most health care in Pennsylvania will be provided by four or five large systems as organizations consolidate for more effectiveness and efficiency," Dr. Stuart Heydt, CEO of Geisinger, said. "This merger ensures that a Pennsylvania system, led by physicians and dedicated to quality care, will be one of the survivors. We'll continue to collaborate with our existing partners and look for opportunities to integrate other health care organizations into this partnership."

Frank Henry, chairman of the Geisinger Foundation Board of Directors, said that the merger will create a cost savings "simply by virtue of the two organizations not competing with one another."

While some reorganization of jobs has already taken place and will continue at both Hershey and Geisinger, no large number of job eliminations is anticipated as a direct result of this merger. No facility closings are planned, according to Dr. C. McCollister Everts, CEO of the Hershey Medical Center.

"Transition teams, including our physicians and employees, will work together to identify savings that will serve the needs of patients and employees. If jobs are lost, we'll help those people find other employment," Everts said. "For most people, this affiliation will increase job security as it strengthens our health system."

Everts said the merger will not only ensure that doctors continue to serve rural areas, but also will protect the public interest in supporting medical education and research, which are becoming more

difficult to fund as health care costs are cut.

Billie Willits, assistant vice president for human resources, indicated that Penn State has been in touch with union officials representing some Penn State employees concerning the implications of this merger.

"Discussions with the unions will continue until all matters are resolved," Willits said. "This will understandably take some time."

Geisinger's regional health systems serve more than 2 million people in Pennsylvania and southern New York. There are more than 70 Geisinger office practices in 90 communities in the northernmost tier of the Commonwealth. The Geisinger Health Plan is the largest rural HMO in the nation and has the lowest administrative cost of any HMO in the state. In addition to its office practices, Geisinger operates a 548-bed hospital in Danville, a regional trauma center, a children's hospital and a 230-bed medical center in Wilkes-Barre.

Hershey Medical Center, composed of the College of Medicine, the 504-bed University Hospital and Penn State University Children's Hospital, operates various specialized centers throughout the state. During 1995-96, University Hospitals admit-

Penn State's Hershey Medical Center
and Geisinger Health SystemStatistics
(1995-96 data)

Together, Geisinger and Penn State's Hershey Medical Center have embarked on a new physician-led health system to serve Pennsylvania with the best patient care, medical education and research available. The following table offers a look at the two institutions:

	Geisinger	Hershey
Net clinical revenue	\$567,217,000	\$389,475,000
Research grants	\$3.6 million	\$44.4 million
Licensed beds	841*	504
Surgeries	17,637	13,925
Employees	7,210	6,070
Physicians	559	376
Residents	202	358
Medical students	##	443

* excluding bassinets

Many medical residents rotate through Geisinger. Annually

Source: Hershey Medical Center

Intercom graphic by Antennae Mountz

ted nearly 20,800 inpatients and provided care to more than 356,000 outpatients and 25,600 emergency-service patients.

Providing physicians for rural areas with large populations of older residents is a major commitment of the new system, according to officials. The consolidated system will also focus its research efforts on finding solutions to health problems specific to Pennsylvanians.

Both institutions were originally established by philanthropic trusts, from Milton S. Hershey and Abigail Geisinger. The trusts will remain intact, and donations and research grants will continue to benefit the individual organizations receiving them. While the hospital names will remain the same, it is not yet known what departments or medical services — if any — will move as a result of this joint venture.

Hershey employees with questions may call 1-888-799-3484. Geisinger employees may call 1-888-856-7041. Employees at other Penn State locations who have questions should e-mail them to changes@psu.edu.

MISSION AND VISION OF THE NEW PENN STATE GEISINGER HEALTH SYSTEM

The Mission

To improve health of the people of the Commonwealth of Pennsylvania through an integrated system of health services based on a balanced program of patient care, education, research and community service.

The Penn State Geisinger Health System supports the mission through principles and commitments that guide physicians and staff in their endeavors.

PRINCIPLE: Excellence

COMMITMENT: We strive for the best, continuously improving quality in all our activities.

PRINCIPLE: Service Orientation

COMMITMENT: Our physicians and staff use their skills, creativity, energy and loyalty as resources for effective and quality services in every community and each setting in which we serve.

PRINCIPLE: Individual Dignity

COMMITMENT: We provide humane, compassionate and expert care, always emphasizing the dignity of the individual.

PRINCIPLE: Teamwork

COMMITMENT: We take pride in recognizing and empowering good people who demonstrate the importance and value of teamwork.

PRINCIPLE: Physician Leadership

COMMITMENT: We are physician-led, across our entire organization and within the many communities we serve.

PRINCIPLE: Diversity

COMMITMENT: Diversity among physicians, staff, students, and volunteers promotes an environment of mutual support and respect.

PRINCIPLE: Education

COMMITMENT: We believe in the intellectual and professional pursuit of new knowledge, and its dissemination to colleagues, students, and the public at large, as an instrument of our health system that adds value to all of our customers.

PRINCIPLE: Research

COMMITMENT: We believe that basic science, clinical, community health and health-services research advances the overall health and well-being of our patients and their communities.

PRINCIPLE: Fiscal Responsibility

COMMITMENT: We exercise prudent use of all resources as part of our stewardship responsibility for fiscal and organizational success.

PRINCIPLE: Tradition

COMMITMENT: We take pride in our history, for it is the foundation of our future and our long-standing commitment to your health.

The Vision

To be the health system of choice, advancing care through education and research.

This vision requires that we advance the ability of the health professions, and all whom we work with in the health care arena, to meet the health needs of individuals and communities throughout Central Pennsylvania and beyond. We will deliver choice to all customer groups, using top physician leadership in all specialties, providing quality and the full range of services throughout the entire continuum of care, while creating ease of access and highest satisfaction, all at an affordable price.



The Geisinger Medical Center in Danville

WHAT BROUGHT US TO THIS POINT

The decision to merge Penn State's Hershey Medical Center with the Geisinger Health System was done to guarantee the future of the College of Medicine and its academic mission, according to Dr. C. McCollister Everts, CEO of The Hershey Medical Center.

Although The Hershey Medical Center and Geisinger are financially sound, the ever-changing health care market was making it increasingly difficult for an academic medical center to compete while continuing to train future doctors and carry out life-saving research.

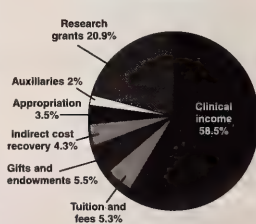
Everts explained the situation to Penn State's Board of Trustees last Friday after the announcement that Hershey would join forces with Geisinger to form the Penn State Geisinger Health System. Everts said that income from the clinical side of the medical center — its hospitals and clinics — was being used to subsidize the academic side — the College of Medicine. As health care reform and the movement toward managed care took hold over the last decade, the clinical undertakings of the Hershey Medical Center received smaller reimbursements. The not-for-profit medical center was forced to compete with for-profit systems. In 1995-96, more than 58 percent of Hershey's clinical income went to support its academic mission. Twenty years ago, only 10 percent of the clinical revenue was used for this purpose. Its reliance on clinical revenues was growing and its role as a medical educator was in jeopardy.

In addition, out of 75 public university medical schools across the nation that receive state support, Hershey is ranked last in the amount of funds it is appropriated. In 1995-96, only 3.5 percent of the College of Medicine's \$191.6 million funding came from the state.

"We decided we would like to act from a position of strength," Everts said. And the search began for a partner who could fill the bill.

Hershey's CEO said Penn State officials wanted to find a partner with a similar culture, a strong clinical orientation, one that was finan-

COLLEGE OF MEDICINE FUNDING FISCAL YEAR 1995-96



cially strong and had a common mission.

Geisinger is such an organization, according to Everts.

As part of the arrangement, Penn State will retain its hard assets, such as its endowment and its buildings. The majority of employees at The Hershey Medical Center who are involved in the clinical enterprise become employees of the Penn State Geisinger Health System. The system will be overseen by a new 18-member governing body composed equally of Penn State officials and Geisinger officials.

Everts said Penn State's College of Medicine was not alone in the difficult road it faced. Other institutions with medical colleges across the country have merged with "for-profit" organizations. Last year alone, 768 hospitals in the United States merged — between 14 and 16 of these were in Pennsylvania alone. Everts said he believes the joint venture with Geisinger, in which Penn State retains control and operation of the College of Medicine, is the first of its type in the United States.

"This is the most important and exciting event since the founding of The Milton S. Evers-Hershey Medical Center 30 years ago," he said.

PENN STATE'S HERSHEY MEDICAL CENTER AT A GLANCE

BEGINNINGS: Since its founding in 1963, as a result of a gift from The Milton S. Hershey Trust, Milton S. Hershey Medical Center of The Pennsylvania State University has grown and progressed, becoming a leading health care and research institution.

The Medical Center is composed of Penn State's College of Medicine, University Hospital and Penn State University Children's Hospital. The Medical Center has more than 6,000 employees and enrolls more than 500 students annually.

To accommodate continued growth in the number of patients who seek care at University Hospitals, the Medical Center this year established the Penn State Arthritis, Bone & Joint Center and opened four new family health centers — one each in Lower Paxton Township and Palmyra and two in State College. Additionally this year, the National Institutes of Health established a General Clinical Research Center at the Medical Center to create an environment where clinical investigators can observe and study human physiology and innovatively study and treat disease.

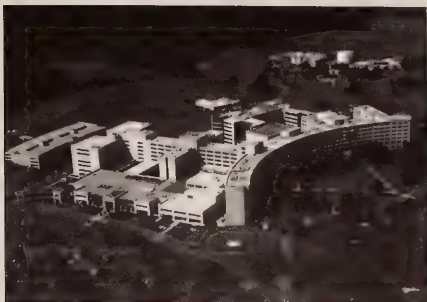
PENN STATE'S COLLEGE OF MEDICINE: Since the first students enrolled in 1967, the College of Medicine has graduated 2,182 physicians and 439 scientists with doctor of philosophy and master of science degrees in the 26 classes that graduated through May 1996. In conjunction with the University graduate school, the College of Medicine offers master of science degrees in laboratory animal medicine — the only such program in the state. This year, post-graduate education includes the training of more than 400 University Hospitals resident physicians and College of Medicine post-doctoral scholars and fellows.

The Medical Center's Biomedical Research Building is a 254,000-square-foot academic facility providing additional laboratory and office space for the Departments of Anesthesia, Medicine, Microbiology and Immunology, Pathology, Pediatrics and Surgery, as well as classrooms and student areas.

Total grant support for 1995-96 was \$44.4 million.

HOSPITALS: The 504-bed University Hospitals are responsible for providing high-quality medical care while serving as settings for educational and research programs. The hospitals are referral centers for patients sent by their own physicians in communities throughout Pennsylvania and also provide primary care for residents of the surrounding area.

The University Hospitals have a number of specialized centers, including the Cancer Center, Cardiovascular Center, Center for Emergency Medical Services, Center for Sports Medicine and Fitness, and Center for Primary Care, as



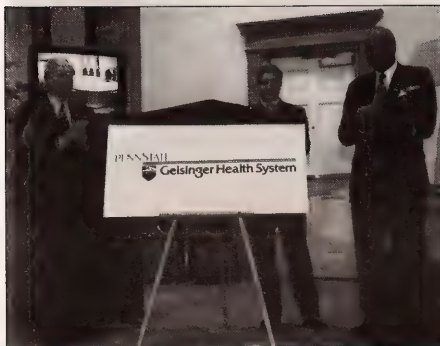
The Milton S. Hershey Medical Center in Hershey

well as others for newborn intensive and surgical care, hemophilia, breast care, sleep disorders, recovery from substance abuse, epilepsy, muscular dystrophy, and pain management and palliative care. The hospitals also have comprehensive programs in high-risk obstetrics, infertility, oncology, diabetes, ophthalmology, multiple sclerosis, genetics, and spinal cord injuries, and offers the unique services of the Lions Eye Bank of Central Pennsylvania and the Central Pennsylvania Poison Center.

The seven-story south addition houses the 36-bed University Hospital Rehabilitation Center.

TRAUMA CENTER: Within the Center for Emergency Medical Services, University Hospitals have a regional resource trauma center, with added qualifications in pediatric trauma. The LIFE LION aeromedical service, and the newly established University Hospitals' Emergency Medical Services, are also vital assets to the region.

During 1995-96, University Hospitals admitted nearly 20,800 inpatients and provided care to more than 356,000 outpatients and 25,600 emergency-service patients.



Official unveiling

Dr. C. McCollister Everts, chief executive officer of The Milton S. Hershey Medical Center, Penn State's senior vice president for health affairs and dean of its College of Medicine, left, joined University President Graham B. Spanier and H. Jesse Arnelle, president of the Board of Trustees, in displaying the new Penn State Geisinger Health System logo for the first time during a press conference Jan. 17. Officials at Geisinger and Hershey unveiled the logo simultaneously during a live satellite uplink.

Photo: Greg Grieco

MEET SOME OF THE PRINCIPALS

Penn State

■ **H. Jesse Arnelle** has been president of the Pennsylvania State University Board of Trustees for the past year. He has served on the board since 1969.

■ **Graham B. Spanier, Ph.D.**, became Penn State's 16th president in 1995. He is also professor of human development and family studies, sociology, and family and community medicine.

■ **C. McCollister Everts, M.D.**, is chief executive officer of The Milton S. Hershey Medical Center, Penn State's senior vice president for health affairs and dean of its College of Medicine.

■ **Bruce H. Hamory, M.D.**, has been chief operating officer of Penn State's Milton S. Hershey Medical Center and executive director of University Hospitals since February 1996. He is also professor of medicine.

■ **George W. Blankenship Jr., M.D.**, is associate dean for external affairs at Penn State's College of Medicine and professor and chair of ophthalmology at The Hershey Medical Center.

Geisinger

■ **Frank M. Henry** has been chairman of the Geisinger Foundation Board of Directors since 1995.

■ **Stuart Heydt, M.D.**, has been president and chief executive officer of the Geisinger Foundation since 1991. He has served in various management positions since joining Geisinger in 1973.

■ **Frank J. Trembulak** has been executive vice president, operations/treasurer of the Geisinger Foundation since 1993; and senior vice president and treasurer of the various Geisinger entities since 1984.

■ **Howard G. Hughes, M.D.**, senior vice president, health plans, has led the GHP management team since 1987. He is a member of the Board of Directors of GHP. Dr. Hughes has served in various positions since 1977.

■ **Charles W. Maxin, M.D.**, has been senior vice president, clinical operations, for Geisinger's western region since 1992. He has served in other management positions since joining Geisinger in 1987.

Redesign

continued from page 1

"We are extremely pleased by this decision," President Graham B. Spanier said. "This reorganization will allow us to function more effectively and provide our own students with the opportunity to complete their education at a Penn State campus of their choice."

"This has been a tremendous and historical week for Penn State," he said. "These changes bring with them many opportunities, and I am looking forward to a future for this University that I believe is exciting, well-planned, forward-looking and keeps in mind the needs of students, the Commonwealth and the University."

According to the plan, 12 campuses will join together to form the Commonwealth College, which will be overseen by a dean. As the largest college in the Penn State system, it will include: Beaver, Delaware County, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Shenango, Wilkes-Barre, Worthington-Scranton and York campuses. The Penn State Abington-Ogontz Campus will become Abington College and the Altoona Campus becomes Altoona College, able to offer baccalaureate degree programs; Penn State Harrisburg and the Schuylkill Campus will merge to form an expanded Capital College, and Berks and Allentown campuses will unite to form Berks-Lehigh Valley College. These new entities join the existing Penn State Erie, The Behrend College, and will provide additional four-year programs. The campus executive officers at these college locations will acquire the title of dean.

Following feedback from Secretary Hickok about insufficient documentation of program need at three Pittsburgh-area campuses, University officials agreed to withdraw the request for new four-year degree programs at Beaver, New Kensington and McKeesport campuses. The plans for these campuses will be resubmitted following the development of further documentation. The New Kensington campus already offers four-year programs in nursing and electromechanical engineering technology, and those programs will continue.

One additional modification to the plan calls for any enrollment growth at the Abington and Delaware County campuses to be at the upper-division level. The change was requested, according to Spanier, because of concern about unnecessary program duplication and competition with Philadelphia area colleges. The University has agreed to cap total freshman enrollment at the 1995 levels at both campuses for five years.

"Our goal is to allow our Penn State students to continue their education at Penn State and earn a Penn State degree," Spanier said. "This plan



allows us to assume that there will be some stability for campuses and course offerings. It also allows us to engage in some long-range planning."

Spanier, who is pleased with the state's decision, said the plan will not cost taxpayers any additional money, because the programs will be funded by tuition revenues from increased enrollments at the campuses.

Hickok, who attended the Jan. 17 Board of Trustees meeting, said Penn State did a "great job of advocating its position."

"This is such a comprehensive change and really a redefinition of Penn State that will change the face of education in this state," Hickok said. "We undertook a rigorous analysis

and looked at the broader context of the Commonwealth. This has never been done before and we feel good about the analysis and the outcome."

Hickok's analysis of the plan, which took six months, involved looking at the use of taxpayer dollars — not just at Penn State but across the state of education said his staff had to analyze the use of grants by students, the use of funds by other institutions, the duplication of services and the possible competition among schools. Penn State has been criticized by some institutions who fear the University will grow at their expense. Hickok said that a project the scope of Penn State's plan was bound to make

some institutions unhappy.

"This is not a plan to grow," Spanier said, "so much as a plan to serve our students and communities across the Commonwealth. In the first two years, we anticipate a cumulative enrollment increase of only 2.6 percent or a few hundred students in total. This is a small growth in comparison to the anticipated number of additional high school graduates who will be entering college."

The president said the restructuring, which begins immediately, is critical to the University's future and the future of higher education in Pennsylvania. Spanier said Penn State is still looking to collaborate with other institutions in the state.

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■ OUTREACH

Students help win designation for Clarion River

The work of Penn State landscape architecture students has made it to Capitol Hill, influenced federal law, and protected the heritage and ecology of a scenic portion of northwestern Pennsylvania.

Throughout the fall of 1995, the students in the third-year landscape architecture design studio gathered information on more than 100 miles of the Clarion River. The research, conducted in conjunction with Allegheny National Forest officials, was compiled in an effort to gain consideration to designate the Clarion River as a national wild and scenic river under the national Wild and Scenic Rivers Act. The act protects and preserves American rivers for future generations. Professors **Dan Jones** and **Mark Battaglia** and **Tom Yahner**, assistant professor, organized the cooperative endeavor with ANF officials so their students would gain experience on a project with regional implications.

"The Clarion River study is the kind of project that we in the Department of Landscape Architecture greatly value — an opportunity for students to gain 'real world' experience while providing significant service to the Commonwealth," said **Eliza Pennypacker**, professor and head of the department. "And how many college students can say that the president of the United States signed legislation based, in part, on their school work? I am very proud of our students' excellent contribution to this effort."

Former Congressman **Bill Clinger** said, "For me, H.R. 3568 is an especially meaningful piece of legislation

See "Clarion River" on page 16

University is tops in R&D expenditures

Penn State ranked No. 1 in Pennsylvania and 10th in the nation among American universities in total science and engineering research and development (R&D) expenditures in 1995, according to new figures posted by the U.S. National Science Foundation (NSF).

The ranking represents a return to the top 10 nationally for Penn State, which was 12th in 1994. Total science and engineering R&D expenditures in 1995 were \$330.8 million.

"Penn State's research funding is derived primarily from federal sources and is spent almost entirely in the Commonwealth. This funding provides jobs for Pennsylvanians and generates tax revenues through salaries paid to residents and by payments for Pennsylvania products," President **Graham B. Spanier** said.

"You would be hard-pressed to find a community anywhere in the Commonwealth where Penn State's enormous research enterprise is not having an impact on the local economy, on jobs and, through our research, on the betterment of people's lives," he said.

Penn State also continued in the No. 2 position nationally, behind the Massachusetts Institute of Technology, in

See "Research" on page 5



On the road again

James Stewart, vice provost for educational equity, listens as a first-grader in Allentown's Central Elementary School reads a story. Stewart visited the school as part of President Spanier's statewide tour initiative for administrators. **FOR THE STORY, PLEASE TURN TO PAGE 2.**

Photo: Courtesy of Allentown Campus of the Berks-Lehigh Valley College

Inside



Employee questions on Hershey/Geisinger merge

The *Intercom's* "Glad You Asked" column takes a special look this week at questions from employees about the recent creation of the Penn State Geisinger Health System. For more, please see page 3.



News from the Trustees

Eight Penn State graduates have been honored with the Distinguished Alumni Award. To find out who they are, please turn to page 5.

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Statewide tour for administrators in full swing

By VICKI FONG
Department of Public Information

Traveling from a dairy farm to a classroom of first-graders, Penn State senior administrators and deans are hitting the road to University campuses and talking face-to-face with the people of Pennsylvania.

The tour is similar to the statewide tour conducted last year by University President Graham B. Spanier and part of his initiative to rededicate the University to the people it serves, and to increase understanding of Penn State and higher education in general. On that tour, it was new faculty members who got a first-hand view of the Commonwealth and Penn State's involvement in a variety of areas across the state.

On the latest tour, so far three campuses have sponsored visits by several administrators, and 19 more visits are planned for spring semester, resulting in campus/community visits to 25 University locations. The agendas include meetings with campus students, faculty and staff, and area community and business leaders.

Karen Sandler, Abington-Ogontz campus executive officer, invited representatives of the area school district,

township government, the chamber of commerce and the public library to meet with **Gloriana St. Clair**, interim dean of University Libraries, and **Gregory Geoffroy**, dean of the Eberly College of Science.

"Both deans were very helpful to us in promoting the quality of Penn State and the centrality of the campus to the local community," Sandler said. "The University's commitment to community partnerships and academic quality was actively reinforced during the visit. This reinforcement has a long-term benefit for the campus and the University."

St. Clair noted, "Two very lively students met with us to discuss their educational initiatives; some other students demonstrated the use of computers in science experiments at the campus. We had some excellent interchanges with faculty about the changes in the campuses."

At the Berks Campus in Reading, **Gary Schultz**, senior vice president for business and finance and treasurer, and **Neil Portfield**, dean of the College of Arts and Architecture, walked through a dairy farm and Carpenter Technology, a specialty steel firm, and stopped by the Police Athletic League facility, which sponsors programs for

TOUR SCHEDULE

FEBRUARY

■ Wilkes-Barre, Shenango, DuBois, York and McKeesport campuses

MARCH

■ Mont Alto, Fayette, Hazleton and Beaver campuses

APRIL

■ Schuylkill Campus

MAY

■ Pennsylvania College of Technology

who have a success story to tell, like Carpenter's CEO Bob Cardy who drew parallels between the management strategies for industry and academic institutions.

John Romano and **James Stewart** enjoyed listening to stories being read by first-graders in Allentown's Central Elementary School, which has a large minority representation and which will be going to a year-round calendar. They also met with area high school guidance counselors and shared lunch with students who had participated in pre-college programs sponsored by the Allentown Campus with support from the University's Equal Opportunity Planning Committee.

"It was heartwarming to see how our programs have provided access to a significant group of students who might not otherwise have had the opportunity to pursue their dreams of going to college," said Stewart, vice provost for educational equity.

Romano, vice provost and dean for enrollment management and administration, said, "The value of trips of this kind is that it strengthens the forces that unite the University as one academic community spread across the entire Commonwealth of Pennsylvania."

disadvantaged children.

"For me, the best part of the tour was the visit to the PAL facility, which provides a positive alternative for children," Schultz said. "After school, they come and have homework centers staffed by volunteer tutors. There also are ample recreation opportunities. The mood in this place was fabulous."

Porterfield noted that the visit to Carpenter Technology reinforced his belief that academe should be listening carefully to those in the real world

Appointments

Arts and Architecture has new associate director of development

Lewis Ricci has been named associate director of development for the College of Arts and Architecture. Ricci, former executive director of the Columbus Arts Council in Columbus, Ind., will work with the Center for the Performing Arts, Pennsylvania Centre Stage and Pat Healy Museum of Art boards as well as support the director of development and the dean of the College of Arts and Architecture in academic field raising.

As executive director of the Columbus Arts Council, Ricci was responsible for all operations of a regional arts council serving the city of Columbus and a six-county region of southern Indiana. Ricci administered an annual united arts fund drive and services for five general members and 40 affiliate organizations while managing and programming two public performance and exhibition facilities.

Before his position in Columbus, Ricci was director of special projects for Cathedral Arts Inc./1990 International Violin Competition of Indianapolis/Cole Porter Centennial, and before that, was promotions and public information director for the Indiana University's public radio station, WFU-FM.

A member of the Board of the Indiana Assembly of Local Arts Agencies since 1991, Ricci was its president from 1992-1994. He holds a bachelor of science degree in biology from Bucknell University and a master's degree in arts administration from Indiana University.

DuBois Campus names financial aid counselor

Janet Searly has been named financial aid counselor at the Penn State DuBois Campus. She holds a

bachelor's degree in business administration, with an emphasis in marketing, from Penn State and is currently working on an M.Ed. in adult education, also at Penn State. She worked with the admissions office at DuBois Campus for nine years before accepting the current appointment.

As financial aid counselor, Searly will answer questions about federal, state, University-wide and DuBois Campus-specific aid programs including scholarships, loans and grants. She also will help students apply for funding and help them discover outside sources of funding, and will continue her duties as the veterans affairs coordinator. Financial aid plays an important role in helping nearly 80 percent of DuBois Campus students finance their college educations.

Hazleton brings CEO on board

Karen Doyle Walton, vice president for academic affairs at the Allentown College of St. Francis de Sales, has been named campus executive officer for the Penn State Hazleton Campus. The new appointment is effective June 1. Hazleton is one of the 12 campuses that now fall under the Commonwealth College umbrella.

Walton, a tenured professor of mathematics and resident of Bethlehem, Pa., has been with Allentown College since 1976. Her latest responsibilities include overseeing undergraduate and graduate programs for 2,200 students.

She joined Allentown College first as an assistant to the academic dean, then served at various times as a lecturer and acting chairwoman for the department of mathematics/computer science, associate academic dean, director of planning and academic dean, before being named to the vice presidential



KAREN DOYLE WALTON

chairwoman from 1970 to 1975. She earned her bachelor's degree from Vassar College in 1965, an M.A.T. at Harvard University the following year and a master's degree at the University of Pittsburgh in 1971, all in mathematics.

In 1983, she completed an Ed.D. in higher education administration at Lehigh University and she also has studied at the University of Haifa, in Israel, the University of Paris at Sorbonne and the University of Vienna. In addition to her Allentown College and Seton Hill College teaching, she has taught at Muhlenberg College, in Allentown, and at Newton High School, in Newton, Mass.

Her many publications include the 1996 book, *Against the Tide: Career Paths of Women Leaders in American and British Higher Education*. She has directed projects with grants from such sources as the National Science Foundation, the U.S. and Pennsylvania Departments of Education, the Eisenhower Mathematics and Science Education Act and the Woodrow Wilson Foundation.

post in 1993. In late 1992, she was a Fulbright Administrative Fellow at La Sainte Union College of Higher Education in Southampton, England, and a visiting scholar at the Wolfson College of Cambridge University.

Before her work with Allentown College, she was on the mathematics faculty at Seton Hill College, in Greensburg, Pa., for nearly 10 years and served as department

GLAD YOU ASKED

In light of the recent announcement of the merger between The Hershey Medical Center and Geisinger Health System, this special "Glad You Asked" column is dedicated to some of the questions being heard most frequently in relation to the impact on employee benefits. Answers to these questions have been provided by Billie Willis, assistant vice president for Human Resources.

Q. I have a question about the recent merger between Hershey and Geisinger. My mother is currently an employee at The Hershey Medical Center and I am receiving the tuition discount. How will my discount status be affected by this merger?

— G.B.

University Park

A. As I am sure you can appreciate, many of the details of the merger have yet to be worked out. However, the current thinking on this matter is that a transitional tuition benefit program will be provided for children of employees. One year of benefit continuation will be provided for each year of service with Penn State, up to a maximum of six years. As an example, if your mother has been a full-time employee with Penn State for six years or more and you are a student, you would have that benefit for six years or until you complete your first undergraduate degree, whichever occurs first.

Q. What benefits may change in the merger? What is the difference in pay scales and how will this affect HMC employees? Will we lose our PTO and CAT fund time?

Deb in Hershey

A. The benefits and pay scales for employees at Geisinger and the clinical employees at The Hershey Medical Center do differ. There will need to be some adjustments to make all the employees of the new Penn State-Geisinger Health System equitable. The details of this have not been completed and transition teams will be studying these issues in the coming weeks. Whatever details are worked out, we do anticipate that benefits for employees of the new health system will remain at industry standards and we are doing what we can to provide long-term job security.

In relation to the PTO (paid time off) fund, the new health system will recognize and credit employees' accruals and years of service with Penn State. Employees have the option of deciding to "cash out" their accrued days with Penn State and receive no credit for years of service. A determination on the CAT (catastrophic time off) fund has not yet been made.

Q. I am working in my ninth year as a Penn State staff member. We were informed that we will no longer be University employees as of July 1, 1997. I would like to know what retirement plan will be offered under the new system (will TIAA-CREF be an option?). What percentage, if any, will the new employer be contributing? I would also like to know what type of vacation and health care packages will be offered.

—J.G.

Hershey

A. We are working through some of those details right now and will continue to do so in the weeks to come. TIAA-CREF may be a pension option of choice, but we will not know that until eligibility in TIAA-CREF for the new health system is established. TIAA-CREF has eligibility standards that must be met. The employer contribution to the retirement package will be 5 percent up to the social security maximum. For 1996, that maximum was \$62,760. This figure changes annually with the cost of living.

Above that level, the contribution rate will be 7.5 percent. These employer contributions are generally comparable to those offered by other medical facilities.

In relation to your question on vacation and health care packages, the new system will have a vacation and health care package similar, but not identical, to those offered by Penn State. For example with health care packages, benefits may be similar, but employee premiums and or co-payments may vary by type of plan offered.

In relation to your question on vacation, it is my understanding that there is a program, again similar—but not identical—to the Penn State PTO/CAT program that is available.

Details on all of these matters are being worked through and will be communicated to employees as available.

On a personal note, I am concerned that providing this partial information, while we are still working out the details may be a frustrating process for employees. Details of these many issues as they are finalized will be communicated to employees as quickly as possible through meetings, *Vital Signs* and other publications.

For additional information, employees at the medical center may want to use the toll-free telephone number available to them (888-799-3484) or e-mail questions to changes@psu.edu.

ask@psu.edu



Aspire higher

Astronaut Steven W. Lindsey (center) looks over a software program being demonstrated by student Gautam Rao in the Human Factors Laboratory on the University Park Campus. Major Lindsey visited and gave a lecture on his work involving NASA flight software on Jan. 23.

Photo: Greg Grieco

Candidates being sought for federal relations post

A search committee has been appointed to identify candidates for the position of director of federal relations in the Office of Governmental Affairs.

The director of federal relations reports directly to the special assistant to the president for governmental affairs and serves as a liaison between the University and federal government with primary emphasis on Capitol Hill.

This individual should have the ability to determine the potential opportunities and/or impact of federal activities for the University; must interact with elected and appointed officials and their staff as well as with other university representatives in Washington, D.C.; must be able to represent the University on a broad range of issues, as well as monitor, interpret and analyze federal legislative initiatives for University administrative and academic officials.

Knowledge of the federal legislative process is essential and working knowledge of the University is desirable. This individual must have demonstrated the ability to articulate complex policy issues to federal legislators and their staff. The position involves a willingness to reside in the State College area with regular travel to Washington, D.C. A bachelor's degree is required. Excellent oral and written communication abilities are necessary. A major emphasis will be placed on excellent interpersonal skills.

Letters of interest and accompanying resume, together with three current letters of reference, should be sent to Gloria D. Briggs, Human Resources coordinator, 1-A Old Main, no later than Feb. 28.

Members of the search committee are Peter Luckie, associate dean for research, College of Earth and Mineral Sciences; Carol Hermann, senior vice president for administration; and Bobby L. White, assistant to the athletic director.

From the Trustees Docket

Arnelle, Junker re-elected to top board posts

San Francisco-based corporate lawyer H. Jesse Arnelle, who is senior partner at Arnelle, Hastie, McGee, Willis and Greene, and Erie-based banker Edward P. Junker III, vice chairman of PNC Bank Corp. and vice chairman of PNC Bank, NA, were re-elected president and vice president, respectively, of the Board of Trustees on Jan. 17.

Arnelle and Junker will each serve a second one-year term that will expire in January 1998.

Arnelle has served on the 32-member Board of Trustees at Penn State since he was first elected to it in 1969 by the alumni. A 1955 graduate of Penn State, a 1962 graduate of The Dickinson School of Law and a native of New Rochelle, N.Y., Arnelle served in the Peace Corps and was later admitted to practice before the U.S. Supreme Court, the Pennsylvania Supreme Court and the California Supreme Court.

He entered law practice in San Francisco as a sole practitioner in 1971 and, in 1985, with William Hastie, he founded the firm of Arnelle and Hastie that merged with McGee, Willis and Greene in 1994. The 30-attorney firm represents many major U.S. corporations.

Arnelle serves on the board of directors of Wells Fargo & Co. and Wells Fargo Bank, N.A., WNDX Technologies Inc., Eastman Chemical Co., Union Pacific Resources Corp., TETRACON Corp., and Armstrong World Industries, among others, and has been a director of the San Francisco Opera Board, World Affairs Council, Commonwealth Club, and president of the African-American Historical and Cultural Society.

In 1994, Arnelle was elected to the board of directors of the National Football Foundation College Hall of Fame and received the Dr. Martin Luther King Jr. Medal for Outstanding Professional Service in Civil



H. JESSE ARNELLE

EDWARD P. JUNKER III

and Human Rights from George Washington University in 1995. Last year, he received an honorary doctorate of law from The Dickinson School of Law.

For Penn State, Arnelle is a past president and co-founder of the Penn State Renaissance Fund; a life member of the Alumni Association; and a member of the President's Club. He also was a member of the National Development Council.

Edward P. Junker III has served on Penn State's board since 1986 when he was first elected by the delegates of the industrial societies and has been re-elected for succeeding terms. He is a 1960 graduate of Penn State and a 1969 graduate of the Stonier Graduate School of Banking at Rutgers University. He is a native of Carnegie.

Junker joined Marine Bank — predecessor to PNC Bank, Northwest PA — as an assistant vice president in 1964 and rose through the ranks to become chief executive officer in 1983. In 1985, Junker was elected chairman of PNC Bank, Northwest PA, and vice chairman of PNC Bank Corp. He served as president of the Pennsylvania Bankers Association in

1988-89. In Erie, he is a member and treasurer of the Erie-Western Pennsylvania Port Authority; president of the Erie Zoological Society; president and a member of the board of directors and executive committee of the Erie Conference on Community Development; and a trustee of the Erie Community Foundation. He is a former chairman of the board of trustees and a member of the board of corporators, Hamot Health Foundation, and a member of the board of incorporators for Saint Vincent Health Center.

He received The Americans For Competitive Enterprise System, Inc. Outstanding Citizen Award in 1992; the Alexis de Tocqueville Society Award-United Way of Erie County; and, in 1995, the Cannon University Distinguished Pennsylvanian Award.

Active in the development of the University, he was a member of the executive committee of The Campaign for Penn State and served on the National Development Council. He is former chairman and a member of the Council of Fellows at Penn State Erie, The Behrend College. Junker received the Philip Philip Mitchell Alumni Service Award in 1984. In 1987, he was selected as an Alumni Fellow in the College of Health and Human Development and at Penn State Erie.

Other board officers include University President Graham B. Spanier, who serves as ex officio secretary of the board. Officers who also were re-elected to one-year terms on the board are:

— Gary C. Schultz, treasurer; Raymond D. Nargi, associate treasurer; Janet L. Krone, assistant treasurer; Paula R. Ammerman, associate secretary; and Carolyn A. Dolbin, Joan L. Coble and Linda L. Cartright, assistant secretaries.

Retired state senator, former trustee awarded the rank of trustee emeritus

Edward P. Zemprelli, retired state senator and former member of the Board of Trustees, was awarded the rank of trustee emeritus on Jan. 17 in recognition of his meritorious service as a board member for 18 years.

"Ed Zemprelli has been a loyal and hard-working member of our board, and we are very pleased that he will continue to share his advice and expertise with Penn State in the years ahead," said H. Jesse Arnelle, president of the Board of Trustees. Although retired from voting and serving as officers, Penn State's trustee emeriti continue to serve on the board as their schedules permit.

In 1978, Zemprelli was appointed to the board by Gov. Milton Shapp and was re-appointed by Gov. Tom Ridge in 1995. He held the office of vice chairman for the Committee on Physical Plant in 1987-88, and chairman of the Committee on The Milton S. Hershey Medical in 1989-90. He also served on the committees on Educational Policy, Finance, Physical Plant, The Milton S. Hershey Medical Center and the Distinguished Alumni Award Screening Committee.

A practicing attorney and formerly a partner in the law firm of Zemprelli, Clipper and Campedel, Zemprelli retired from the Pennsylvania State Sen-

"Ed Zemprelli has been a loyal and hard-working member of our board, and we are very pleased that he will continue to share his advice and expertise with Penn State in the years ahead."

H. Jesse Arnelle
president
Board of Trustees

ate in 1988 after 26 years of service, and having served as both Senate majority and minority leader. He also served six years in the House of Representatives.

He is a 1945 graduate of Penn State with a B.A. in liberal arts, and received his LL.B. from the University of Pittsburgh Law School in 1950. Admitted to the Allegheny County Bar, he began private practice as an attorney in 1950. Before his election to the General Assembly, he served as selector to the City of Clairton for eight years and as chairman of the Democratic Party of Clairton for four years.

May 15 approved as delegate election date

Thursday, May 15 has been approved as the date for the delegate election of trustees and for counting the ballots in the alumni election.

Six trustees are elected by delegates from organized agricultural societies within the Commonwealth of Pennsylvania; and six trustees are elected by delegates from organized engineering, mining, manufacturing and mechanical (referred to as "industrial") societies within the Commonwealth of Pennsylvania. The term of service is three years and two terms from each category expire each year. Nine trustees are elected by the alumni for three-year terms, with three terms expiring each year.

To participate in the election of trustees by delegates from agricultural and industrial societies, societies must be organized and in existence at least three months preceding the election, and notify the University of this fact at least 60 days before the election.

All graduates of Penn State who have received an associate degree, bachelor's degree or an advanced degree, and former students (some restrictions apply) are eligible to participate in the election of trustees by the alumni.

Questions regarding the elections processes and/or eligibility should be directed to the associate secretary of the Board of Trustees, 205 Old Main, University Park, Pa.; (814) 865-2521.

From the Trustees Docket

Eight lauded with Distinguished Alumni Award

Eight Penn State alumni have been selected by the Board of Trustees to receive the Distinguished Alumni Award, the University's highest award for an individual.

Following are the 1997 Distinguished Alumni, year or years of graduation, and current title:

■ **John Olson Almqvist** of State College, a 1947 doctoral degree graduate in dairy science from the College of Agricultural Sciences. He is a retired professor of dairy physiology at Penn State.

■ **James Balog** of Vero Beach, Fla., a 1950 bachelor's degree graduate in premedicine from the Eberly College of Science. He is the retired chairman of Lambert Brussels Capital Corp. and 1838 Investment Advisers.

■ **James S. Broadhurst** of Pittsburgh, a 1965 bachelor's degree graduate in economics from the College of the Liberal Arts. He is chairman and chief executive officer of Eat'n Park Restaurants.

■ **Richard E. Grubb** of State College. He received his bachelor's and master's degrees in agricultural economics and rural sociology from the College of Agricultural Sciences in 1958 and 1961, respectively, and his doctorate in higher education in 1971 from the College of Education. He is senior vice president and dean emeritus for the Commonwealth Educational System, and former Pennsylvania secretary of agriculture.

■ **William H. Joyce** of Newtown, Conn., a 1957 bachelor's degree graduate in chemical engineering from the College of Engineering. He is president,

chief executive officer and chair of Union Carbide Corp.

■ **Raymond E. Schultz** of Memphis, Tenn., a 1955 graduate in labor management relations, College of the Liberal Arts. He is president and chief executive officer of Promus Hotel Corp.

■ **Thomas W. Tewksbury** of Wheaton, Ill., a 1954 master's degree graduate in physical education from the College of Health and Human Development. He is executive vice president and senior partner of The Callahan Group Inc.

■ **Sen. Hardy Williams** of Philadelphia, a 1952 bachelor's degree graduate in political science and history, College of the Liberal Arts. He is a state senator in Pennsylvania's 8th District, and an attorney.

Study shows students emphasize civility and respect

Recent national debates have focused on the rise of incivility and intolerance in America and finding possible solutions, but a University study shows that many Penn State students do place an emphasis on civility and respect.

In the report "Penn State As a Community of Learning" compiled from student surveys done at University Park as part of an Alumni Teaching Follow project, most students saw themselves as acting in ways that endorse an open community. They also indicated that they feel they are treated with respect and permitted to express their ideas. The findings were presented to the Board of Trustees at its January meeting.

"Ninety percent said their own actions respect the rights and dignity of others; 73 percent said they try to understand differing points of views; 44 percent admitted to protesting hurtful language by others," said Fern Willits, the 1995-1996 Alumni Teaching Fellow and professor of rural sociology, who coordinated the survey research.

The two surveys were developed to further

define the six principles for a civil community of learning, as set forth in a study of campus life in the U.S. by the Carnegie Foundation for the Advancement of Teaching in the early 1990s. The Carnegie Foundation suggested a definition of enduring principles for an ideal community of learning: educationally purposeful, open, just, disciplined, caring and celebrative. Willits explained. The Penn State project comprised a telephone survey of 362 undergraduates and a mail survey of 589 faculty, all at University Park. The surveys included a wide range of questions about student and faculty experiences or behaviors at Penn State.

The report also showed that about 72 percent of those surveyed denied that they have been treated with a lack of respect or courtesy, and 61 percent disagreed that they have been prevented from expressing controversial points of view because of fear of reprisals.

"The vast majority of students indicated that they support a just community, work to protect the rights

of others, and have not been unjustly excluded at Penn State," Willits said. "Sixty-five percent have developed a close relationship with someone from a background different from their own."

"The report hopefully will provide information that can help to define some of those areas most in need of improvement and provide a benchmark against which future change can be assessed," said co-author **Betty Moore** of the Penn State Pulse Project and of Student Affairs Research and Assessment. **Diane Enerson**, director of the IDP Center for Excellence in Learning and Teaching, is another co-author.

Authors of the report are: Willits, Moore, **Diane Enerson**, director of the IDP Center for Excellence in Learning and Teaching, and **Jeanette O. Janota** formerly of the Penn State Pulse Project.

The report was prepared in collaboration with The Office of Student Affairs' Penn State Pulse Project, and the IDP Center for Excellence in Learning and Teaching and is available from the IDP in 401 Grange Building on the University Park Campus.

Nominations sought for prevention award recipients

The Penn State Commission for the Prevention of Alcohol, Tobacco and Other Drug Abuse needs your help in identifying and rewarding individuals in our community who are making a significant contribution toward the prevention of alcohol, tobacco and other drug abuse.

The following is a brief description of the criteria and eligibility related to the "Outstanding Contribution Award."

Criteria:

Dedication to the prevention of alcohol, tobacco and other drug abuse for staff, faculty, students and community members demonstrated by innovation, enthusiasm and leadership beyond the expectations of their position/organization.

Eligibility:

Any Penn State faculty, staff, student organization, individual student or member of the local community. Past awardees may be recognized for their work with new programs, but may not receive an award for the same program twice. For a complete list of past award recipients or information on nominating someone, please contact **Natalie Croll** at (814) 863-0461.

All applications must be received by Feb. 3. You may e-mail or mail the information required to Croll, 237 Rittenour Building, University Park, or nxc2@psu.edu.

Research

continued from page 1

industry-sponsored science and engineering R&D expenditures, according to the NSF. MIT reported science and engineering R&D expenditures from industry sources of \$52.7 million and Penn State reported \$50.2 million. Penn State has held the No. 2 spot since 1988.

Robert Killoren, director of sponsored programs, said if all sources of support are considered—including federal appropriations, University infrastructure support and institutional cost sharing—total expenditures for organized research at Penn State were \$344.3 million in 1995. The comparable figure for 1996 is \$348.4 million.

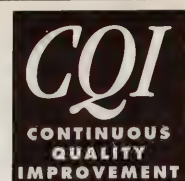
Penn State research in recent years has resulted in the discovery of new planets, experiments aboard the space shuttle, and discoveries about airplane safety, insect flight, artificial heart design, the development of better golf greens, lung disease, software

development, volcano eruptions, care of the elderly, brain tumors, reduction of waste water, injuries among the elderly, breast cancer treatment, the proper use of asthma drugs, single parenthood, the causes of autism and the state's honey bee crisis.

"Faculty at Penn State are engaged in research that changes people's lives and changes the understanding of the world we live in," Spanier said. "They are supported by graduate students in their labs and, in recent years, thousands of our undergraduate students have begun to engage in critical research projects as part of their Penn State education."

"A Penn State undergraduate education is not a passive experience. It may, for example, involve building an important experiment that flies on the space shuttle or working with a team exploring the causes of cancer," Spanier said.

Killoren noted that NSF will report rankings on 1996 expenditures in December 1997.



Behrend captures calls

Prospective students who telephoned the admissions office at The Behrend College had a one in four chance of receiving a busy signal or being disconnected. Thanks to the work of a CQI team, a voice automated system is now in place that allows admissions counselors to connect with callers more easily and to better serve their needs. Team members are: Deanna Alexander, Patricia Melzer, Carol Peterson and Michelle Slagle. The team leader is Donna Fuller and the facilitator is Robert Light. Mary-Ellen Madigan, Behrend's director of admissions and financial aid, sponsored the team.

Benchmarking report

A new research report from ASHE-ERIC touts the use of benchmarking in higher education as an easily understood and effective tool for staying competitive. In the monograph, *Benchmarking in Higher Education: Adapting Best Practices to Improve Quality*, Jeffrey Alstete addresses benchmarking issues like building core competencies and creating an institution more capable of learning how to respond to uncertainty. The report is available from ASHE-ERIC Higher Education Reports, George Washington University, One Dupont Circle, Suite 630, Washington, D.C. 20036; (800) 773-ERIC. The cost is \$18.

Virginia Tech benchmarks Penn State

On Jan. 31, a team of eight administrators from Virginia Tech will spend the day at Penn State benchmarking with their counterparts in research, information technology, student affairs, outreach education, international studies, budgeting and strategic planning. Penn State has been selected as one of six universities Virginia Tech is visiting.

For more information about continuous quality improvement, please call Louise Sandmeyer, executive director of the Center for Quality and Planning, (814) 863-8721, or e-mail LES1@PSU.EDU; or look to the Web at <http://www.psu.edu/president/cqi>.

Faculty/Staff Alerts

Conflict of interest reminder

As a reminder of the conflict of interest disclosure policy, employees of the University should exercise the utmost good faith in all transactions in their duties to the University and its property. In their dealings with and on behalf of the University, they should hold to a strict rule of honest and fair dealings between themselves and the University. They should not use their positions, or knowledge gained in those positions, in such a way that a conflict of interest might arise between the interest of the University and that of the individual. Employees should disclose to the administrative head of the college or other unit in which they are employed, or other appropriate superior officer, any potential conflict of interest of which they are aware before a contract or transaction is consummated.

Library hours

University Libraries on the University Park Campus will maintain the following schedules through May 1: All areas of Pattee Library will be open Monday through Thursday from 7:45 a.m. to midnight; Friday, 7:45 a.m. to 9 p.m.; Saturday, 8 a.m. to 9 p.m.; and Sunday, noon to midnight with the following exceptions:

- Historical Collections and Labor Archives, Interlibrary Loan, Pattee Copy Center and the Rare Books Room will be open Monday through Friday, 8 a.m.-5 p.m.
- University Archives / Penn State Room will be open Monday, Tuesday, Thursday and Friday from 9:30 a.m.-5 p.m.; Wednesday from 9:30 a.m.-9 p.m.; and closed Saturday and Sunday.
- The Music Listening Room will be open Monday through Thursday from 9 a.m.-11 p.m.; Friday, 9 a.m.-6 p.m.; Saturday, noon to 6 p.m.; and Sunday, noon to 11 p.m.
- The Architecture, Earth and Mineral Sciences, Education, Engineering, Mathematics and Physical Sciences Libraries will be open Monday through Thursday 7:45 a.m.-11 p.m.; Friday, 7:45 a.m.-9 p.m.; Saturday, 8 a.m.-9 p.m.; and Sunday, noon to 11 p.m.

- Pollock Library will be open 24 hours a day, seven days a week.

For more information on hours of library service, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>.

In addition, during spring semester three floors in West Pattee Library will remain open an additional two hours. Students can continue studying from midnight to 2 a.m., Sunday through Thursday evenings, on the ground, first and second floors of West Pattee. Included in this section of the building are the Periodicals Room, the Reserve Reading Room and a computer lab.

Applications due

■ NASA Space Grant Fellowship

Penn State seniors and graduate students are invited to apply for the NASA Space Grant Fellowships. Supplemental stipends of \$5,000 will be awarded to students pursuing graduate studies at Penn State in fields that, broadly interpreted, promote the understanding, assessment and use of the national space program. Fields of study in most departments are eligible.

■ Sylvia Stein Memorial Space Grant Scholarship

Undergraduate students are invited to apply for the Sylvia Stein Memorial Space Grant Scholarship. One recipient will receive a scholarship of \$7,500 each year for two years. The award will be given to a sophomore

student who will be a junior in fall 1997 with an outstanding academic record enrolled in science, engineering or mathematics.

Application deadline for both of these grants is Feb. 28. For more information on who is eligible and how to apply, contact your department of study or The Pennsylvania Space Grant Consortium, 101 S. Frear, University Park, Pa. 16802; (814) 863-7688; or e-mail pspace@psu.edu.

Proposal deadline

The deadline for proposals to be submitted to the Institute for the Arts and Humanistic Studies for the next funding period (July through December) is 5 p.m. Monday, March 3. Proposals for research fellowships, faculty research groups and funded programs are due at Ihlseng Cottage on the University Park Campus by this date. Guidelines can be obtained from 103 Ihlseng Cottage or by calling (814) 865-0495.

Know someone outstanding in the University Libraries?

Nominations are being sought for candidates for the 1997 University Libraries Award. The award is given in recognition of the achievements or performance of any person holding an academic or staff appointment in the Libraries who meets one or more of the following criteria:

- professional contribution which has a significant influence on the operations of the Penn State Libraries;
- significant professional contribution which earns the respect of the University community for the Libraries;
- significant contribution to the profession which reflects achievement in librarianship at Penn State;
- or outstanding service to the Libraries as shown by continuing leadership and innovation.

Any member of the Penn State community may make a nomination. Forms are available at various locations throughout the Libraries. All nomination forms are due on or before March 14 and should be sent to: Sandy Stauffer, Office of the Dean, E505 Pattee Library, University Park, Pa. 16802.

Deadline for entries nears for Katey Lehman Creative Writing Award

Feb. 3 is the deadline for submitting entries in the annual Katey Lehman Creative Writing Awards contest. Sponsored by the colleges of the Liberal Arts and Communications, this competition is open to all Penn State undergraduates from any location, who have at least sophomore standing. Winners will be announced March 15.

The Katey Lehman Creative Writing Awards are made annually in poetry, fiction and journalism. Application forms are available by mail or in person from the Department of English, 116 Burrows Building, University Park, Pa. 16802.

For more information on prizes, submissions or rules, contact Steve Grecco in the English department at (814) 863-0595.

Student award in East Asian studies

The second annual competition for students working on or developing an interest in some aspect of the cultural traditions of China, Japan or Korea, is under way. Students are invited to submit an application by March 31 for an opportunity to receive \$300. Anyone interested in East Asian studies is eligible to apply. For information on the application process, contact Steven Heine, chair of the East Asian Studies Committee, at (814) 865-3403 or by e-mail at shx23@psu.edu.

News in Brief

Health Promotion Programs

The following Health Promotion Programs are being offered:

Relax and Enjoy Series

During this four-week series, learn to manage everyday stress through the use of meditation, relaxation therapy and gentle stretching. Meets Wednesdays, Feb. 5 through 26, from noon to 1 p.m., in 110 Henderson Building (The Living Center). Cost: \$10, reimbursable to HMO participants. To register, contact **Jan Hawbaker** at (814) 865-3085 or JQH3@psu.edu.

Conscious Eating

Learn how to turn lunch time into a powerful opportunity to break the stress cycle of your day and return to work refreshed and rejuvenated. Meets Thursday, Feb. 6, from noon to 1 p.m. in 125 Reber Building. Cost: none. To register, contact **Jan Hawbaker** at (814) 865-3085 or JQH3@PSU.EDU.

Adult Children of Alcoholics

This support/discussion group now meets at University Park Campus. First session is Thursday, Jan. 30, from noon to 1 p.m. in the Harshbarger Room of Eisenhower Chapel. No prior registration required and there is no cost.

HRDC courses

The following courses are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form on page 63 of the HRDC course catalog. For course descriptions, log in to their Web site at <http://www.ohr.psu.edu>.

■ Introduction to American Sign Language

Meets Feb. 7, from 8:30-11:30 a.m., in 319 Rider Building. Cost: \$35.

■ Getting Organized!

Meets Feb. 13, from 9 a.m. to noon, in 319 Rider Building. Cost: \$35.

■ Designing Effective Computer-Based Presentations

Meets Feb. 17, from 10 a.m. to noon, in 141 Computer Building. Cost: \$35.

■ Writing on the Run

This program is a quick, easy-to-learn and easy-to-read system of note-taking based on SuperWrite course materials. Meets for 10 sessions on Tuesdays, Feb. 18-April 22, from 11:30 a.m.-1 p.m., in 319 Rider Building. Cost: \$154.

Career sites needed for Take Our Daughters to Work Day

The Commission for Women is now in the planning stages for a morning program for Take Our Daughters to Work Day, which will be held on April 24. Letters were sent to all administrative units at University Park to solicit areas interested in being career sites for the program. Each young woman participating in the program will be able to select and visit three career sites; the visits will provide a chance to explore career opportunities in that area. The young women (grades six through 12) will visit each site for 45 minutes.

If your department is interested in being a career site for Take Our Daughters to Work Day and would like more information, please contact **Debbie Meder** at (814) 865-1821 or by e-mail at dmm4@psu.edu. More information will be provided at a later date on how University Park employees and their daughters can participate in this program.

Library materials can be recalled

Any registered user of the University Libraries is now able to personally recall books that are currently charged out to another person. Patrons can place a personal reserve through The CAT in the Library Information Access System (LIAS) from any library location at University Park.

For more information on the use of the personal reserve command, type help reserve at any LIAS prompt (>>>), or call the Library at (814) 865-2112.



Nature's sculptures

When the weather's bad, there's a place to turn ... for emergency closing information, that is. WPSU-FM (90.1, 91.5 and 106.7) is the center for all information about weather-related class cancellations and office closings at University Park, Altoona College and DuBois Campus. With its three transmitters, the station reaches listeners throughout central and northern Pennsylvania. For more information, check out "Handling Weather Day Absences" on the Web at <http://www.ohr.psu.edu/pages/policies.htm> under Human Resources Guidelines, HRG-10.

Photo: Greg Grieco

Faculty retiree luncheon

Penn State faculty retirees meet at 11:30 a.m. Mondays at the Cadillac Room of the Autopark in State College for lunch and a speaker on a topic of general interest. Retired members of the faculty and their spouses are welcome to join this group. For more information, call **Frank Mallette** at (814) 237-2021.

Looking for "depressed" people

Most people feel depressed at some time or another in their life, but some experience major depression. A study being conducted at Penn State is designed to help people with this problem. You may be experiencing major depression if you:

- Feel depressed most of the day, nearly every day;
- Experience a marked decrease of interest and pleasure in almost all activities;
- Feel fatigue or loss of energy most of the day;
- Feel worthless or excessive guilt; or
- Feel a decreased ability to think or concentrate.

Subjects (ages 18-55) included in the study will receive 12 to 20 free sessions of individual psychotherapy either immediately after being assessed for depression or 12 to 20 weeks later. Subjects also will be asked to complete various questionnaires during and after treatment. A brief telephone interview will help researchers determine the suitability of this treatment for you. If you cannot be included in this treatment, alternate referral suggestions will be made. Strictest confidentiality is maintained.

If you believe that you are experiencing major depression and would like to be considered for this treatment, please call (814) 863-4833. **Louis Castonguay**, assistant professor of psychology, is the principal investigator in this study.

EMPLOYEE BENEFITS

A regular column provided by the Office of Human Resources

Benefits reminders

Faculty and staff members are reminded of the following:

■ Flexible benefits reimbursements

Requests for reimbursement for services incurred in 1996 must be submitted on or before March 31. Reimbursements are based on the date the service occurred not on the date of payment, so only services from Jan. 1, 1996 through Dec. 31, 1996 are eligible.

■ 1996 Medical Claims

March 31 also is the last date HealthAmerica and Corporate Health Administrators will accept medical claims for Healthpass and Plan A for 1996 charges.

■ Employee Assistance Program

The Employee Assistance Program (EAP) provides confidential counseling sessions for University faculty, staff and members of their households. Up to three visits per problem situation are paid for by Penn State. To receive a free consultation, contact the Penn State EAP at 1-800-858-2778, (employees at The Hershey Medical Center, call 1-800-543-5080).

■ SERS Retirement Account Statements

The annual statement of account that each State Employees' Retirement System (SERS) participant receives will be mailed to the participant's home address again this year. To receive your statement in a timely manner, your home address must be current. Please note that the only method for changing a home address is to complete a new W4 form through the Payroll Department.

The

ARTS

AT PENN STATE

Artist to give workshop

New York City dance artist **Pilar Pascual** will be the guest of the Penn State International Dance Ensemble on Saturday, Feb. 1, when she oversees a workshop on Spanish dance. Pascual will give a talk at the beginning of the workshop.

Guests are invited to observe the day's activities, scheduled from 9 a.m. to 6 p.m. in Room 133 White Building on the University Park Campus.

Anyone with questions should contact **Elizabeth Hanley**, director of the Ensemble and assistant professor of kinesiology, at (814) 863-3467.

Opera Gala

The Penn State Opera Theatre will present its Fourth Annual Opera Gala in the College of Arts and Architecture's School of Music Recital Hall at 3 p.m. Sunday, Feb. 2, on the University Park Campus.

In the gala concert, produced by opera director and associate music professor **Susan Boardman**, School of Music faculty members, alumni and students will perform arias, ensembles and choruses from the world's most beloved operas. Penn State's Concert Choir, directed by professor **Douglas Miller**, will participate, and pianist **Matthew Doebler** will accompany the concert.

Tickets for the Opera Gala are \$4 and may be purchased at the School of Music Office or at the door before the performance.

Pre-Carnegie Hall concert

The Castalia Trio will present a concert of chamber music at 8 p.m. Wednesday, Feb. 5, in the College of Arts and Architecture's School of Music Recital Hall on the University Park Campus. The trio is comprised of pianist **Marlyne Dosse**, professor of music; violinist **Jamie Lyon**, associate professor of music; and cellist **Kim Cook**, associate professor of music.

The concert is one of six concerts the resident artists are performing in preparation for their recital at Carnegie Hall's Weill Recital Hall on Saturday, Feb. 15. Tickets for the Carnegie Hall performance may be purchased by calling (212) 247-7800.

Bach's Lunch

The Penn State Chamber Singers, directed by professor **Douglas Miller** of the School of Music faculty, will perform for the free Bach's Lunch concert at 12:10 p.m. Thursday, Feb. 6, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

Audience members may take a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

The Chamber Singers will present their 11th Celebration of Love concerts in the Old Main lobby Feb. 14 and 15.

"La Boheme"

The New York City Opera National Company's performances of "La Boheme" at 9 p.m. Saturday, Feb. 8 and 3 p.m. Sunday, Feb. 9 in Eisenhower Auditorium on the University Park Campus will feature an accompanying orchestra. The opera is sponsored by the Center for the Performing Arts.

The performance will be sung in the original Italian with English subtitles projected above the stage.

Tickets are \$33.50, \$28.50 and \$23.50 for non-students, \$28.50, \$24.50 and \$21.50 for students.

For tickets or more information, contact the Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7649.

Several exhibits at University Park

■ HUB Art Alley Cases

The HUB's Art Alley Cases feature an exhibit of Nigerian artifacts through Feb. 16.

The collection includes original designs of native dress, jewelry, musical instruments, swords, pipes and bells. Most of the artists are Hausa from the Congo State, Nigeria. The exhibit is on loan to the HUB Galleries from Sharon and Jim Mortensen.

■ HUB Art Alley Panels

The HUB's Art Alley Panels feature *Imagine a World* by graphic design students from The School of Visual Arts in The College of Visual Arts and Architecture through Feb. 23.

The exhibit represents the students' interpretation of Unity Days through graphic design. With vivid photography and darkroom manipulation the students explore the issues of racism, sexism, homophobia, gender and disability.

■ HUB Browsing Gallery

The HUB's Browsing Gallery features the exhibit *Our Land by Jay Sieminski* through Feb. 23.



At the Jordan Center

Singer **Gloria Estefan** will be in concert Feb. 2 at the Bryce Jordan Center on the University Park Campus. Tickets are \$35 and \$25 for reserved seating.

Sieminski traveled to South Africa to research the land rights restitution process. A Penn State political science senior with a minor in photography, he photographed several claimant communities. The exhibit depicts life in the homelands and the process of reclaiming land rights.

■ HUB Formal Gallery

The Formal Gallery at The Hetzel Union Building features *Memories of Childhood* through Feb. 22.

This exhibit originated at the Steinbaum Krauss Gallery in New York City. Fifteen artists — photographers, painters, printmakers — created images of their childhoods. Representing "American melting-pot kids," the artists' stories are told in words and visuals.

■ Kern Exhibition Area

The Kern Graduate Building Art Cases feature the designs of **Chip Kidd** through Feb. 16 and the prints of **Perry Oliver** through Feb. 20.

Kidd, a Penn State alumnus in visual arts, is well known for his dust-jacket designs. He is the head designer at Alfred A. Knopf and recently published his art book, *Batman Collected*.

Oliver, born in Pennsylvania in 1941, eventually established his residence in Nerja, Spain. A professional architect, Oliver taught himself printmaking and for almost 25 years his work has been exhibited throughout the world.

Previously exhibited in the HUB Art Alley, Oliver's show has been extended to Kern.

■ Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," an exhibition of watercolors by American masters, is on view at the Palmer Museum of Art on the University Park Campus through Sunday, May 18.

Beginning with a late 19th-century seascape by Winslow Homer, the exhibition traces the development of the watercolor through the 1940s. The works range in subject matter from landscape to still life.

Watercolorists such as Charles Burchfield, Charles Demuth, Arthur



BYRCE JORDAN CENTER

Upcoming events

- Feb. 2
Gloria Estefan, 8 p.m.
Tickets: \$35 and \$25 for reserved seating, on sale now.
- Feb. 20
Harlem Globetrotters, 7:30 p.m.
Tickets: \$13; \$2 discount for youth and senior citizens; \$5 discount for faculty and staff with ID and for groups of 15 or more. Penn State students may purchase half-price tickets. Penn State ID ticket purchases may be made at the Bryce Jordan ticket center only, and there is a limit of two tickets per ID. VIP seating is \$20; Magic Circle seating is \$70 and includes an authentic Globetrotter jersey. Special discounts do not apply to VIP and Magic Circle seating. Tickets are on sale now.

■ Feb. 22
John Michael Montgomery with **Ricochet**, 8 p.m.
Tickets are \$25, \$22.50 and \$20 and go on sale Feb. 25 at 8 a.m. John Michael Montgomery has stormed to the top of both the country and pop album charts with hits like his 1995 Grammy Award-winning "I Swear." He was also named Billboard's Top Country Artist for 1995.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>.

G. Dove, John Marin and Maurice Prendergast will be represented by multiple examples of their work.

The Palmer Museum of Art on Curtin Road is open Tuesday through Saturday, 10 a.m. to 4:30 p.m., and Sunday, noon to 4 p.m. Admission to the museum is free.

■ Zoller Gallery

"Photo — First half: Collage, second half: Applied" is an exhibit in the Zoller Gallery in the College of Arts and Architecture School of Visual Arts Building on the University Park Campus. The exhibition focuses on two different aspects of photography.

The first half, curated by photographer and art professor **Ken Graves**, is a selection of fine art work by nationally known photo collage artists; the second half of the exhibit, curated by **Lanny Sommese**, professor of art, and **Kristin Sommese**, associate professor of art, will feature photography as it is applied in graphic design. The artists included in the second part of the exhibition are all Penn State graphic design alumni.

The exhibition is free to the public.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Saturday, February 1

School of Music, 3 p.m., 122 Music II. Student Recital presents Teri Stephens, percussion, and Renee Guarnieri, flute.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Kiss of the Spider Woman." For tickets, phone (814) 863-0255.

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Katherine Bente on "Italian Baroque Painting at the Palmer Museum."

Sunday, February 2

School of Music, 3 p.m., Recital Hall. "Opera Gala." Susan Boardman, director. For tickets, phone (814) 865-0431.

School of Music, 8 p.m., Recital Hall. Student Recital presents Audrey Rottschaefer, clarinet.

Monday, February 3

School of Music, 8 p.m., Recital Hall. Student Recital presents Annie Burridge, soprano, and Tracy Geesaman, mezzo-soprano.

Wednesday, February 5

School of Music, 8 p.m., Recital Hall. "Castalia Trio."

Thursday, February 6

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Mazowsze—The State Folk Song and Dance Ensemble of Poland." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Gary Yaple, percussion.

Friday, February 7

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Catherine Ciferri on "American Watercolors at the Palmer Museum."

School of Music, 8 p.m., Recital Hall. "Celebration of African-American Spirituals." Anthony Leach, director. For tickets, phone (814) 865-0431.

Saturday, February 8

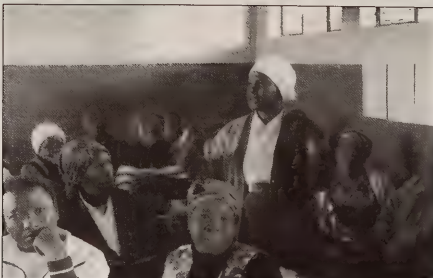
Palmer Museum of Art, 11:30 a.m., Christoffers Lobby. Gallery Talk presents Horne Seymour on "Nineteenth-Century American Art."

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "La Bohème—New York City Opera National Company." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. "Celebration of African-American Spirituals." Anthony Leach, director. For tickets, phone (814) 865-0431.

Sunday, February 9

Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "La Bohème—New York City Opera National Company." For tickets, phone (814) 863-0255.



On display

The HUB Browsing Gallery on the University Park Campus features the exhibit "Our Land" by Jay Sieminski through Feb. 23.

School of Music, 8 p.m., Recital Hall. "Celebration of African-American Spirituals." Anthony Leach, director. For tickets, phone (814) 865-0431.

Monday, February 10

School of Music, 8 p.m., Recital Hall. Graduate Recital presents Celia Teh, piano.

SEMINARS

Monday, February 3

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Carolina Cruz-Neir on "Interactive Visual Supercomputing: Immersed in Science and Engineering."

Tuesday, February 4

Geoscience, 4 p.m., 112 Walker. Jeff Severinghaus on "Thermal Fractionation of N₂ and Ar isotopes: A gas-phase stratigraphic marker of abrupt temperature change in ice core records."

Nutrition, 4 p.m., S-209 Henderson. Don Wojcowski on "Diverse Roles for EPO in Erythroid Development: A Paradigm for Signaling via Type 1 Cytokine Receptors." Biology, 4 p.m., 8 Mueller Lab. Dan Jay on "Laer Inactivation of Proteins During Growth Cone Motility."

Art History, 7:30 p.m., Palmer Lipson Auditorium. Elizabeth Cropper on "Italian Renaissance/Baroque Art."

Wednesday, February 5

Center for Russian and East European Languages, noon, 124 Sparks. Barry W. Ickes on "After Stabilization: Prospects for Economic Recovery." Gerontology, 12:15 to 1:15 p.m., The Living

Center, 110 Henderson Building. Frederick G. Ferguson on "Age-Related Alterations in Immune Parameters and Possible Relationships to Survival."

Center for Women Students, noon, 120 Boucke. Melissa Martiotta on "Don't Weigh Your Self-Esteem: It's What's Inside that Counts."

Thursday, February 6

Gravity Center, 11:30 a.m., 339 Davey Lab. Andrew Strominger on "Black Hole Thermodynamics."

Physics, 3:30 p.m., 101 Osmond Lab. Andrew Strominger on "Black Holes and String Theory."

Friday, February 7

Geography, 4 p.m., 206 Walker. John Cromar on "Defining Metropolitan Areas and the Rural-Urban Continuum."

Sunday, February 9

Archaeological Institute of America, 4 p.m., 101 Kern. Dennis Dirkmaat on "Archaeological Osteology."

Monday, February 10

Continuing and Distance Education and the College of Education's Adult Education, 11:45 a.m. to 1 p.m., 502 Keller. Sara J. Parks on "Professional Perspective on Lifelong Learning."

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Vigor Yang on "Combustion Instabilities in Propulsion Systems."

CONFERENCES

Saturday, February 1

Fitness and nutrition program for women, The Penn State Scanticon. Wayne Campbell on "Strength and Resistance Training

and the Benefits for Women" and Star Campbell on "Nutrition for the Busy Lifestyle."

Penn State International Dance Ensemble, 8 a.m., 132 White. Pilar Pascual presents a Spanish dance workshop.

Monday, February 3

Will Keim at The Penn State Scanticon on "Serving the Community, Leading Each Other." To register, phone (814) 863-4624.

Thursday, February 6

Agricultural Economics and Rural Sociology, Nittany Lion Inn. "Beginning Farmer Workshop."

Friday, February 7

Agricultural Economics and Rural Sociology, Nittany Lion Inn. "Sustainable Agriculture (PASA)" through Feb. 8.

Sunday, February 9

Poultry Science, Nittany Lion Inn. "Game Bird Conference" through Feb. 11.

EXHIBITS

HUB Art Alley Cases

African artifacts by Sharon and Jim Mortensen, through Feb. 16.

HUB Art Alley Panels

Unit Days and graphic design "Imagine a World," through Feb. 23.

HUB Browsing Gallery

Photography exhibit titled "Our Land" by Jay Sieminski, through Feb. 23.

HUB Formal Gallery

"Memories of Childhood" through Feb. 22.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Panels

Perry Oliver, international printmaker, displays works, through Feb. 20.

Kern Tail and Flat Cases

Visual art display "Dust-Jackets" by Chip Kidd, through Feb. 16.

Palmer Museum of Art

"Dismal Science: Photo Works by Alan Sekula, 1972-1996" through March 16. "Capturing the Light: A Selection of 20th-Century American Watercolors" by Winslow Homer, through May 18.

Zeller Gallery

Photo collage by Ken Graves, through Feb. 13.

Photography by Kristin Breslin Sommesse, through Feb. 13.

Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at URL <http://cac.psu.edu/calendar/>

FEBRUARY 1 - FEBRUARY 10

Programs designed to help adult learners with their financial strategies

The Center for Adult Learner Services on the University Park Campus is sponsoring several programs in February on financing an education. The first program, titled "Student Aid: Making Money Stretch," is set for 6 p.m. Wednesday, Feb. 5, or noon Thursday, Feb. 6, in 310 Shields Building.

The program, presented by Jim Fay, financial planner, and Jo Nwankwesi, program officer for Student Aid, will focus on developing a personal budget, application deadlines, financial aid sources, cost-saving tips and the cost of attendance.

"Searching for Graduate School Financial Support," the second pro-

gram planned for February, will be held Wednesday, Feb. 19, in 109 Boucke Building from 6 to 9 p.m. The program is intended for graduate students looking for external graduate school support. It will show students how to search for financial support for graduate studies, and give an overview of the dif-

ferent types of programs available. Jeff Ritchey from the Office of Fellowships and Awards will present the workshop.

For more information on either program, contact the center at (814) 863-3887 or stop by 323 Boucke Building.

LECTURES

Frontiers of Science lectures focus on "Becoming Human"

"On Becoming Human" is the topic of the spring semester 1997 Penn State Lectures on the Frontiers of Science. Designed for the enjoyment and education of central Pennsylvania residents, the lectures are taking place on six consecutive Saturday mornings from 11 a.m. to noon on the University Park Campus.

The second lecture in the series, "Discoveries and Discoverers: How the Sequences of Discoveries and the Personalities of the Discoverers Changed the Field," will be given on Feb. 1 by **Pat Shipman**, adjunct associate professor of anthropology at Penn State, in 101 Thomas Building. Shipman's research has focused on reconstructing the lifestyles of our earliest ancestors and the animal communities in which they lived. Also an expert on the history of ideas about human origins, she will discuss in her lecture how our views of our evolutionary past have been shaped and changed by fossil discoveries and by the people responsible for those discoveries.

The remaining events in the series include:

—Feb. 8: "Histories of Human Genes and Populations: Signatures of



PAT SHIPMAN



Ancient Population Dynamics in Gene Differences," by **Henry Harpending**, distinguished professor of anthropology and human development at Penn State, in 101 Thomas Building.

—Feb. 15: "Human History as Seen Through Genetics: Ancient and Modern DNA Sequences Reveal New Aspects of Our History," by **Svante Paabo**, professor of biology at the University of Munich, Germany, in 101 Thomas Building.

—Feb. 22: "Behavior from Bones: The Diet, Locomotion and Sex Lives of Our Ancestors," by **Alan Walker**, distinguished professor of anthropology and biology at Penn State, in 101 Thomas Building.

—March 1: "The Evolution of the Mind: Speculations from Contemporary Biology Based on the Musings of a Young British Victorian Naturalist," by **Jeffrey A. Kurland**, associate professor of anthropology and human development at Penn State, in 111 Warkit Laboratory.

The Penn State Lectures on the Frontiers of Science are sponsored by the Eberly College of Science. For more information, call (814) 863-8453.

Explore the future of land-grant institutions at inaugural Hill Seminar

C. Eugene Allen, provost for professional studies and director, Minnesota Agricultural Experiment Station, will present the inaugural Hill Seminar, "Land Grant University Program Adaptations Needed For The Next Decade," at 3 p.m. Friday, Feb. 7, in 101 Agricultural Sciences & Industries Building on the University Park Campus.

Allen joined the University of Minnesota faculty in 1967 and became dean of the College of Agriculture in 1984. From 1990-1995, he served as vice president of the Institute of Agriculture, Forestry and Home Economics, and director of the Minnesota Agricultural Experiment Station. In February 1995, he was named provost for professional studies. Before becoming dean in 1988, Allen was a faculty member in two departments — animal science and food science and nutrition. His research

on animal growth is internationally recognized as being at the forefront of understanding the cellular growth and metabolism of muscle and adipose tissue.

At the national level, Allen has played a key leadership role in advancing the role of food and agriculture in the National Research Council (NRC). These efforts led to the establishment of the NRC Board of Agriculture in 1981. More recently, he served as chair of the agricultural, food and renewable resource section of the American Association for the Advancement of Science.

For further information, contact **Terry D. Etherton** at (814) 863-0658. This annual lecture is funded through an endowment established by Otto J. and Opal I. Hill. Hill received his master's degree in Dairy Science from Penn State in 1930.

Learn about fitness and nutrition for women Feb. 1

"Getting It Together: Fitness and Nutrition for Women," a program for women of all ages and all fitness levels, will be presented from 9 a.m. to 3:45 p.m. Saturday, Feb. 1, at The Penn State Scanticon at University Park.

Sessions planned include:

■ "Strength and Resistance Training: Benefits for Women," presented by **Wayne Campbell** from Penn State's Noll Laboratory for Human Performance Research. This session will outline and explain how to begin a basic strength-training program. Dress comfortably, and

■ "Nutrition for a Busy Lifestyle," given by **Star Campbell**. This session will show participants how to fit good nutrition into a busy lifestyle, how to add variety to meal planning and nutrition over the lifespan.

The fee for this program is \$89 (with partial reimbursement for HealthAmerica members). For more information, contact (800) 778-8622.

Maxine Kumin poetry symposium planned for Feb. 1

A one-day symposium on the poetry of **Maxine Kumin**, who has won nearly every literary prize offered in the United States — including the Pulitzer Prize, will be held on Saturday, Feb. 1, on the University Park Campus.

The free symposium will focus on Kumin's work, which encompasses rural as well as urban issues. A highlight of the symposium will be a reading of her poetry by **Maxine Kumin** herself.

For more information on the event, contact **Emily Groszold** at 865-1676 or **Robin Becker** at 863-3606.

Free computing seminars scheduled weekly

The Institute for High Performance Computing Applications is offering a free seminar every week during spring semester on the University Park Campus. The following seminars are for the months of January and February. All seminars listed, unless otherwise noted, will be held in Room 215 Hammond Building from 3:35 to 4:25 p.m.

—Feb. 3: Professor **Carolina Cruz-Neir**, Center for Emerging Manufacturing Technology and Electrical and Computer Engineering, Iowa State University; "Interactive Visual Supercomputing: Immersed in Science and Engineering."

—Feb. 10: **Vigor Yang**, professor of mechanical engineering at Penn State, will discuss "Combustion Instabilities in Propulsion Systems."

—Feb. 17: **Norman Swanson**, professor of economics at Penn State, will talk about "Computing Issues in Econometrics."

—Feb. 24: **Dan Lenosi** of Silicon Graphics Inc. is tentatively scheduled to speak on "cc-NUMA and Origin 2000 Architecture."

For a full listing of seminars planned this semester, visit the institute's Web site at <http://cac.psu.edu/~lnl/ilhpcaspring597e97.html>.

Lecture, reception planned on African American history

"African American History: Undercover Underground," a lecture featuring **Charles Blockson**, curator of the Charles L. Blockson Afro-American Collection at Temple University, will be held at 3:30 p.m. Thursday, Feb. 6, on the University Park Campus in Pattee Library's West Wing Staff Lounge, third floor. A reception will follow.

Blockson has spent more than 40 years amassing one of the nation's largest private collections of black history. The collection contains more than 150,000 books, pamphlets, manuscripts, prints and drawings, sheet music, posters and artifacts. He lectures in both foreign and domestic schools, colleges and universities, and has traveled extensively in Europe, the Caribbean and Africa. He has organized exhibitions and black studies programs throughout the United States.

Blockson holds an honorary doctorate from Villanova University and is listed in *Who's Who Among Black Americans*. He is chairman of the National Park Service Underground Railroad Advisory Committee and project director of the Pennsylvania African American State Historical Marker Program for the City of Philadelphia. Former president of the Pennsylvania Abolition Society, he has served as a director of the state Historical and Record Advisory Board and its Black History Advisory Board. Blockson has served as a past member of Penn State's Alumni Council and received the honor of Alumni Fellow in 1981. Currently, he participates as a member of the Libraries' Development Advisory Board.

Population Research Institute seminars continue

The Population Research Institute, sponsor of a seminar series on issues relating to population research, continues its talks with two more seminars on March 18 and April 16 on the University Park Campus. Mark your calendars for:

■ **Michael Flinn**, associate professor of anthropology at the University of Missouri, will present his population research at 11:45 a.m. Tuesday, March 18;

■ **Charles Weinberg**, Statistics and Historical Demography Branch, National Institute of Environmental Health Sciences, will give a seminar at 11:45 a.m., Wednesday, April 16. Both seminars will be in room 406 Oswald Tower.

More Lectures 1994 Nobel Laureate to speak on Feb. 13

The 1994 Nobel Laureate, **Kenzaburo Oe**, will present a lecture on the University Park Campus on Thursday, Feb. 13.

Oe, a world-famous novelist, was described by the Nobel committee as "one who with poetic force creates an imagined world, where life and myth condense to form a disconcerting picture of the human predicament today."

Born in 1935 in a rural island village, he won Japan's premiere literary honor, the Akutagawa Prize, with his novel *The Catch*. His subsequent literary endeavors have been described as "magical realism," although his novels and stories also express his ongoing critique of Japanese society and politics.

Oe's international reputation

began to grow after the translation of *A Personal Matter*, a poignant tale about a father's dealing with the birth of a mentally handicapped child — fiction that was clearly connected to Oe's real-life experiences with Hikaru, his own son. Some of Oe's other books translated into English include: *Nip the Buds, Shoot the Kids*; *A Quiet Life*; *The Silent Cry*; and *Hiroshima Notes*.

The lecture begins at 5:30 p.m. in 112 Kern Building. It is sponsored by the East Asian Studies Committee, the Office of International Programs, the departments of Religious Studies, Comparative Literature and History, and other units.

For more information, contact **Steven Heine** at (814) 865-3403; or by e-mail at shx23@psu.edu.

Symposium celebrates African American spirituals

At Penn State's symposium on African American spirituals participants will hear more than 100 of the thousands of soulful gospel. They also have an opportunity to learn more about the historical and societal contexts that influenced its development. Penn State's School of Music and the Office of Continuing and Distance Education will present a symposium Feb. 7-9 in celebration of African American spirituals. The event will feature concerts, lectures, demonstrations and choral reading sessions on the historical and philosophical aspects of this music genre.

Topics include: *The Solo Spirituals of African American Women Composers: The Golden Era of the Solo Spiritual: The Works of H.T. Burleigh and Hall Johnson*; *The Hambidge Spirituals*; *Unpublished Editions and the Works of Wendell Whalum*; and *The Spiritual: The Slaves' Response to Culture and Society*.

The symposium will be held at The Penn State Scenic Center at University Park. Registration is \$25 for students and \$100 for non-students.

Public performances surrounding this event include:

— a faculty/guest artist recital Feb. 7 at 8 p.m.,

— a student recital Feb. 8 at 8 p.m. and the Essence of Joy choral group — and guest artists' recital Feb. 9 at 3 p.m.

These performances will be held in the recital hall of the School of Music. Student tickets are \$2; non-student tickets are \$4.50. A special worship service will be held Sunday, Feb. 9, at 11 a.m. at the Albright-Bethune United Methodist Church on the corner of Beaver and Burrows avenues in State College. The service will be conducted by Revs. **Kenneth and Yolanda Clarke**.

Guest performers include **J. Weldon Norris**, director of the School of Music, Howard University; **Raymond Tynes-Jones**, director of the School of Music at The University of Northern Iowa; **Marymal Holmes**, associate professor of music, Bowie State University, Md.; **Edward Jackson Sr.**, retired music teacher, Washington, D.C.; public schools; **Rebecca Ott-McFate**, soprano, Pittsburgh; and **Bruce Trinkle** and **Carl Blake**, associate professors of music, Penn State.

For more information on this event, contact **Anthony Leach**, coordinator, at (814) 865-6521, or by e-mail ATL105@psu.edu.

Max Kade lecture series continues

Continuing its three-lecture series, the Max Kade German-American Research Institute presents the following lectures on the University Park Campus:

— *"The Trials and Tribulations of German Family Names in America"* presented by **Juergen Eichhoff**, Department of German, Penn State, 4:30 p.m. Tuesday, Feb. 25, in 109 Boucke Building;

— *"Pennsylvania's Crazy Quilt of German Religious Groups"* presented by **Donald F. Durnbaugh**, Juniata College and **Juergen Eichhoff**, Department of German, Penn State, at 4:30 p.m. Tuesday, March 18, in 109 Boucke Building.

Anthropologist to talk about women in science

The Penn State Forum, a speaker series sponsored by the Faculty Staff Club and the Penn State Bookstore, kicks off the spring semester with a talk on women in science beginning at 11:30 a.m. Thursday, Feb. 13, at the Nittany Lion Inn on the University Park Campus.

Reviewing the Issue of Women in Science and Engineering" will be presented by **Sue V. Rosser**, professor of anthropology at the University of Florida-Gainesville and director of its Center on Women's Studies and Gender Research. In her talk, Rosser will touch on whether there is room for feminism in science, integrating curriculum to be more "female-friendly" and new ways to attract women to science.

Rosser received her Ph.D. in zoology from the University of Wisconsin-Madison in 1973. From 1986 to 1995, she served as director of women's studies at the University of South Carolina, where she also was a professor of family and preventive medicine in the medical school. In 1995, she was a senior program officer for Women's Programs at the National Science



SUE V. ROSSER

Foundation and since January 1996, she has served as director of the Center on Women's Studies and Gender Research in Gainesville.

Rosser has written nearly 70 journal articles on the theoretical and applied problems of women and science and women's health. She is the author of several books, including *Teaching Science and Health from a Feminist Perspective: A Practical Guide* (1986); *Female-Friendly Science* (1990); *Feminism and Biology: A Dynamic Interaction* (1992); and *Teaching the Majority* (1995). She also served as the Latin and North American co-editor of *Women's Studies International Forum* from 1989-1993 and was a visiting distinguished professor for the University of Wisconsin system's "Women in Science" project.

The event begins at 11:30 a.m. with lunch, followed by the speech at noon. Tickets are \$10 and include lunch. Reservations can be made by mail or by stopping by the Faculty Staff Club office at 110 HUB. For more information, call (814) 865-7590.

Associate director of NIH to discuss health science during Feb. 5 lecture

Norman B. Anderson, associate director of the National Institutes of Health, will deliver the 1997 Sol Kramer Lecture of the College of Health and Human Development at 3 p.m. Wednesday, Feb. 5, in 101 Kern Building on the University Park Campus.

Anderson, who also serves as director of the NIH Office of Behavioral and Social Science Research, will speak on "Bridging the Chasm Between Social, Behavioral and Biomedical Research: An Integrated Multi-Level Approach to Health Science." The event is open to the public.

The Office of Behavioral and Social Sciences Research is charged with facilitating growth in behavioral and social research across all of the 24 institutes and centers of the NIH. Since joining the office, Anderson has initiated a number of activities aimed



NORMAN B. ANDERSON

at removing the artificial separation between biomedical research and behavioral and social science research. In addition to his work at NIH, Anderson is associate professor in psychiatry and psychology at Duke University and founder and director of the university's program on health, behavior and aging in black Americans, and director of Duke's

Exploratory Center for Research on Health Promotions in Older Minorities. He is also a senior fellow at Duke's Center for the Study of Aging and Human Development.

He earned his doctorate in clinical psychology from the University of North Carolina at Greensboro. He then completed a clinical psychology internship at Brown University School of Medicine and two postdoctoral fellowships at Duke.

More Lectures

Forestry lecture slated for Feb. 6

R. Scott Wallinger, senior vice president, international, Westvaco Corp., will present the School of Forest Resources Distinguished Lecture, "An Optimistic View of Sustainable Forestry," at 7 p.m. Thursday, Feb. 6, in 101 Agricultural Sciences and Industries Building on the University Park Campus. The School of Forest Resources Distinguished Lecture is an annual event sponsored by the Glatfelter Pulp Wood Co.



R. SCOTT WALLINGER

The lecture will describe sustainable forestry initiatives at the national and international level and discuss their potential for improving the management of private and public forest lands and reducing the environmental impacts of timber harvesting.

Wallinger has executive responsibility for the company's international product sales, its Brazilian paperboard and container subsidiary, and its domestic forest management and related real estate business. He is a member of the International Business Committee and the Forest Resources Group of the American Forest and Paper Association.

Wallinger has been with Westvaco since 1965, beginning as a forester in the Cooperative Forest Management Program with private landowners. For additional information on the lecture, please contact **Caren Glogofsky** at (814) 863-2506 or by e-mail at ceg12@psu.edu.

Forensic anthropologist to speak on Feb. 9

Dennis Dirkmaat of Mercyhurst College in Erie, who spends his spare time helping the FBI, police and coroners' offices identify and analyze skeletal remains, will discuss forensic anthropology at 4 p.m. Sunday, Feb. 9, in Kern Building on the University Park Campus.

Dirkmaat received his Ph.D. in anthropology from the University of Pittsburgh and participated in the excavation of the Meadowcroft rock shelter, one of the oldest sites inhabited by Native Americans. His archaeological training has been invaluable in police work and the investigation of accidents.

The talk is sponsored by the Archaeological Institute of America, with support from Penn State's Institute for the Arts and Humanistic Studies and the Department of Art History.

Catholic fellowship to meet during lunch

Penn State Catholic Faculty and Staff Fellowship meets periodically throughout the year from noon to 1 p.m. in 212 Eisenhower Chapel. Scheduled talks for the spring semester include:

- Feb. 10: "Are the Media Anti-Catholic?" presented by **P. Jenkins**, director of religious studies;
- Feb. 17: "Lunch with the Bishop: Open Forum," with the Rev. **Joseph Adamec**, bishop of the Altoona-Johnstown Catholic Diocese;
- March 18: "Physical Aspects of the Death of Christ," presented by **Dr. E. P. Roy III**, Internal Medicine Associates;
- April 7: "The Saints of Naples," given by **J. Porter**, associate professor of art history; and
- April 22: A tentative talk titled "Social Teachings of the Church," to be presented by **L. Iwanis**, associate professor of Russian and comparative literature.

Participants are invited to bring a brown-bag lunch. For more information, call the Eisenhower Chapel at 865-4281.

Students to gather for science symposium

Pennsylvania high school students and teachers will gather at University Park for the 33rd Annual Pennsylvania Junior Science and Humanities Symposium on Feb. 27-28.

Students from across the Commonwealth will be presenting research on such topics as behavioral and physiological biology, chemistry and engineering. The student presenting the best research paper will win a \$400 scholarship and will be invited to present his or her paper at the National Junior Science and Humanities Symposium in North Carolina in May.

The 1997 symposium will include lectures by scientist, visits to research laboratories and informal discussions. For more information, contact **Kristin Owens**, conference planner, at (814) 863-5100.



Celebrating King

Bell choir from Our Lady of Victory Catholic Church, Mount Nittany Christian School and Unity Church of Jesus Christ gathered in the Old Main Lobby at noon Jan. 15 to lead faculty, students and members of the community in a bell-ringing ceremony to honor the birthday of Martin Luther King Jr. This tribute at University Park was just one of many events planned system-wide to honor King.

Photo: Greg Grieco

Applicants sought for leader of Outreach/Cooperative Extension

As reported in the Jan. 15 issue of *Intercom*, a search committee has been appointed to identify candidates for the position of associate vice president for Outreach and director of Cooperative Extension. **O. Elwood Hatley**, professor of agronomy, is committee chair.

The associate vice president for Outreach and director of Cooperative Extension reports to the vice president for Outreach and Cooperative Extension and to the dean of the College of Agricultural Sciences; and serves as an associate dean for the College of Agricultural Sciences, with primary responsibility for Cooperative Extension.

The position involves policy, program and administrative leadership and liaison responsibilities for Penn State Cooperative Extension, as well as extension and outreach responsibilities University-wide. A list of spe-

cific responsibilities is available upon request.

Candidates should have an earned doctorate in an agricultural or other appropriate discipline; demonstrated ability to provide programmatic leadership; effective interpersonal skills; an ability to communicate effectively with diverse audiences; and a commitment to the extension education, international, research and resident education functions and land-grant philosophy.

Nominations, applications and inquiries should be submitted to Hatley, chair of the search committee, The Pennsylvania State University, 201 Old Main, Box PS1, University Park, Pa. 16802. The search committee will review applications and nominations beginning March 1, and will continue to receive them until the position is filled. For a listing of committee members, please see the Jan. 15 issue of *Intercom*.

IDP grant proposal deadline is Feb. 14

The IDP Center for Excellence in Learning and Teaching seeks grant proposals for projects to improve undergraduate education at Penn State. The deadline for proposals is Feb. 14.

The center hopes to make many awards in the range of \$3,000 to \$5,000, although requests for up to \$10,000 will be considered. The source of the grants is the Office of Undergraduate Education's Fund for Excellence in Learning and Teaching, which is overseen by the center.

The center is looking for proposals for projects that could make a lasting

impact on undergraduate education. The projects should involve a range of good practices, including:

- increasing student-faculty contact;
- encouraging active learning;
- collaborating across disciplines at the general education level; and
- making smart use of information technology.

Proposals will be reviewed by a committee consisting of representatives from various colleges and the Commonwealth Educational System. For guidelines and applications forms, contact the center at (814) 863-2599.

■ BLACK HISTORY MONTH

Campuses have wide variety of activities planned

February is designated as Black History Month in the United States. In celebration and recognition of this, several Penn State campuses have planned the following events:

■ Altoona

- Sunday, Feb. 2: The campus is hosting an appearance of the Massachusetts-based Project Concern dance troupe. This "hip hop" dance company will perform free at 7:30 p.m. in the Slep Student Center.
- Wednesday, Feb. 5 and Friday, Feb. 7: The films "Get on the Bus" will be shown at the Slep Student Center.
- Friday, Feb. 7: An African American/Asian New Year Food Festival from 11 a.m. to 2 p.m., Slep Student Center.
- Monday, Feb. 10: Black History Month Art Exhibition - Jerry Zolten's African American movie/music poster collection.

■ Berks

- Wednesday, Feb. 5: At 7:30 p.m. in the Perkins Student Center, Project Concern dance troupe will perform. Join this group of 18 young ethnic dancers as they bring "hip hop" to campus with their upbeat performance style. Admission is \$3 for adults; \$2 for children and senior citizens. The performance is free to Penn State students, faculty and staff.

■ McKeesport

- Seven performances of "The Sojourner Truth Story" by the Prime Stage Theatre Company of Pittsburgh will be held on the Buck Union Building stage at 8 p.m. Feb. 5 through 9, as well as matinees on Feb. 7 and 8.
- Thursday, Feb. 13: A student poetry reading of works by African American poets is set for 8 p.m.
- Wednesday, Feb. 19: Project Concern, a troupe of young performers of dance and music, at 8:30 p.m.
- Thursday, Feb. 27: The Metamorphosis Performance Company, an interactive theatre group, will perform "Strange Like Me" at 8 p.m. The play deals with issues of racism, sexism and homophobia.

■ Mont Alto

- Tuesday, Feb. 4: Project Concern, an inner-city step dance group, will perform at 8 p.m.
- Saturday, Feb. 15: Trip to Harper's Ferry Black History Museum, 10 a.m.
- Friday, Feb. 21: The film "Kansas City" will be shown at 8 and 10:15 p.m.

■ New Kensington

- Art exhibit featuring Pittsburgh artist Daran Alexander at the Penn State New Kensington Art Gallery, from Feb. 1 through 28.
- Wednesday, Feb. 12: From 10:30 a.m. to 1 p.m. in the Theatre Lobby, faculty, staff and students participate in an African American Read-in Chaim by reading works by African American writers.
- Wednesday, Feb. 19 at noon: Project Concern Youth Dance Group will perform.
- Wednesday, Feb. 26 at 1 p.m.: The African Drum and Dance Ensemble of Pittsburgh will perform in the Valley High School Auditorium.

■ Penn College

- An African American History Celebration is under way at Pennsylvania College of Technology. The celebration kicked off on Jan. 20 and continues with "Multi-Cultural Story Salad," on Saturday, Feb. 1. Part of the college's Children's Series, the performance begins at 11 a.m. in the Academic Center Auditorium. The show, staged by Max-milition Productions, whips together eight children's books about variety of countries.
- Additional activities on the celebration roster include:
 - Monday, Feb. 3: Mamie Diggs, a local descendant of an Underground Railroad conductor, will give a presentation at 11 a.m. in Penn's Inn.
 - Tuesday, Feb. 4: Silina Garette, evangelist with the local

- New Way of Life Regeneration Assemblies of Christ, discussing African American women's issues at 12:30 p.m. in Penn's Inn.
- Thursday, Feb. 6: "Women of the Calabash," musicians with percussive beauty performing music from Latin America, Africa and the Caribbean, 7 p.m. in Penn's Inn.
- Monday, Feb. 10: "Gospel-O-Rama," local choirs and soloists rejoice in gospel music, 7 p.m. in the Academic Center Auditorium.
- Tuesday, Feb. 11: K.J. James, noted blues musician, 7 p.m. in Penn's Inn.
- Thursday, Feb. 13: "Womyn with Wings," a play about the triumph of "womynhood," 7 p.m. in Penn's Inn.
- Tuesday, Feb. 18: African heritage fashion show, 12:30 p.m., Penn's Inn.
- Thursday, Feb. 20: "Our Young Black Men are Dying and Nobody Seems to Care," a choreopoem telling stories of disappointments and dreams and celebrating the resilience of the African American male.
- Monday, Feb. 24: African-Caribbean dance group, 7 p.m., Academic Center Auditorium.
- Thursday, Feb. 27: Closing luncheon featuring African American cuisine and a sampling of African folktales with the storyteller Shanta, 11 a.m., Penn's Inn.
- Thursday, Feb. 27: Storyteller Shanta, 7 p.m., Penn's Inn. All events are open to the public with admission varying from free to \$7. Call the College Activities Office at (717) 327-4763 for more information.

■ Penn State Erie, The Behrend College

- Wednesday, Feb. 12: The Rev. Jesse Jackson will be a guest in the college's Speaker Series. His presentation, "Keep Hope Alive," will be held at 7:30 p.m. in Erie Hall. The event is free to the public and seating will be handled on a first-come, first-served basis.
- Thursday, Feb. 20: Project Concern, an urban youth dance troupe, will perform at Bruno's Cafe on campus. Free to the public.

■ Penn State Harrisburg

- Wednesday, Feb. 5: The campus is hosting an appearance of the Massachusetts-based Project Concern dance troupe. This "hip hop" dance company will perform free at noon in the Gallery Lounge.
- Project Concern is a non-profit organization which serves inner-city children in Massachusetts. Established in 1989, Project Concern uses dance therapy as one of the ways in which it engages youth. The dance program has proven successful in diverting children from inner-city problems.

■ Shenango Campus

- A display honoring Penn State Shenango Campus African American alumni will be on display in Sharon Hall throughout February.
- Friday, Jan. 31: At 7 p.m. Pin Points Theatre will present "The Meeting," a theatrical performance based on a fictional meeting between Martin Luther King Jr. and Malcolm X.
- Sunday, Feb. 16: PSU Shenango Minority Affairs will with the Shenango Valley Urban League co-host a gospel program at 4 p.m. at the Valley Baptist Church.
- Thursday, Feb. 20: "Project Concern," a Pittsburgh area dance troupe, will perform at 10 a.m. in the auditorium.

■ University Park

- The Paul Robeson Cultural Center, in conjunction with other units and student organizations is offering a number of activities in celebration of Black History Month. Using the theme, "African Roots Yield Western Fruits," the Robeson Center programs and events reflect commonalities among Africa, the Caribbean and North America.
- These and other events are open to the public and are listed below. For more information, contact the center at (814) 865-1779.
- Now through Feb. 16: African Artifacts in the HUB Art Cases.

- Now through Feb. 22: "Memories of Childhood—So We Are Not the Brady Bunch or the Cleavers," in the HUB Formal Lounge.
- Now through Feb. 23: Unity Days and Graphic Design Imagine a World, Photography on the HUB Art Panels.
- Sunday, Feb. 1: The Caribbean Student Association will host a dance and concert at 9 p.m. in the Paul Robeson Cultural Center. Admission will be charged.
- Thursday, Feb. 6: The Rev. James Forbes of Riverside Baptist Church in New York City will give a talk on "Emancipation From Poverty" at 7:30 p.m. in the Paul Robeson Cultural Center. A reception will follow.
- Thursday, Feb. 6: Charles Blockson, curator of the Charles L. Blockson Afro-American Collection at Temple University will give a lecture on "African American History: Undercover Underground," at 3:30 p.m. in Pattee Library's West Wing Staff Lounge on the third floor. A reception will follow.
- Thursday, Feb. 13: The Multicultural Resource Center will present Teye Adudela in "Ethnic Man" at 8 p.m. in the Paul Robeson Cultural Center. Admission is free.
- Friday, Feb. 14: "A Tribute to Black Music" by local area musicians at noon, Kern Graduate Commons. Free.
- Sunday, Feb. 15: The Annual African Student Association "A Touch of Africa," dinner and dance at 8 p.m. in Fridley-Johnson Commons, East Halls. Tickets are \$10 in advance, \$12 at the door.
- Monday, Feb. 17: "Sankofa," film by Hale Gerima about a mystic voyage for a self-centered young woman back to her African heritage, 7:30 p.m., Paul Robeson Cultural Center. Free.
- Wednesday, Feb. 19-28: "A Raisin In The Sun," by Lorraine Hansberry and directed by Charles Dunson, features Frances Foster. University Playhouse. Tickets available at the Playhouse.
- Thursday, Feb. 20: Dr. Shahid Athar, clinical associate professor at Indiana University and U.S. representative for World Muslim Congress, will give the 7th Annual Malcolm X Memorial Lecture on "Malcolm X: A Perspective from the Islamic Community" at 7:30 in the Paul Robeson Cultural Center.
- Friday, Feb. 21: Anthony Cohen, who retraced, on foot, the routes used to escape from slavery, will give a talk on "The Underground Railroad Walk to Canada," at 3:30 p.m., 26 Hesler Building.
- Sunday, Feb. 23: Paul Robeson Jr., will give a lecture, which marks the opening event in the Paul Robeson Cultural Center 25th anniversary, at 4:30 p.m. in the Cultural Center. A reception will follow.
- Thursday, Feb. 27: "Quilombo," a Brazilian film on the successful revolt of enslaved Africans and the establishment of their independent homeland, at 7:30 p.m., Paul Robeson Cultural Center.

■ Worthington Scranton

- Monday, Feb. 3: A performance by Project Concern Youth Dance Company at 7:30 p.m. in the Campus Study Learning Center.
- Friday, Feb. 7: Blues singer, songwriter, and guitarist K.J. James will perform at noon in the Study Learning Center.
- Wednesday, Feb. 26: 1996-97 Lecture Series will offer a presentation by Louise P. Bias at 7 p.m. in the Campus Multipurpose Building. Bias is the mother of the late Len Bias, the University of Maryland basketball player who died from a drug-related death after being drafted by the Boston Celtics. The Bias family also suffered the loss of a second son, Jay, in a drive-by shooting at a shopping mall. Bias will address adults' responsibilities to our nation's youth.
- Through February:
 - The Penn State Worthington Scranton Campus Library will display books and audio and video cassettes by and about the late Dr. Martin Luther King Jr.

Eberly College looking for math department head

The Eberly College of Science invites applications and nominations for the position of head of the Department of Mathematics. Candidates for the position should have a distinguished record of mathematical research and teaching, and should have demonstrated superior administrative or leadership skills, qualifying them to play a key role in the further development of the department.

Applications and nominations will be reviewed beginning Feb. 10 and continue until a suitable candidate is identified. Applications and nominations should be sent to Myra Bowling, 517 Thomas Building.

The University is an equal opportunity employer. Women and minorities are encouraged to apply.

Obituaries

Retired speech communication professor was 84

Carroll C. Arnold, a professor of speech communication from 1963 until his retirement in 1977, died Jan. 12. He was 84.

He received a bachelor of arts degree in English and history from Sioux Falls College in 1933; a master's degree in speech history in 1940; and in 1941 received a Ph.D. in speech and English literature from the University of Iowa. Arnold taught elementary school in South Dakota for two years and taught English, speech and history at Washington High School in Sioux Falls, S.D., from 1935 to 1939. From 1940 to 1942, he taught speech at the University of Akron and at Chatham College.

From 1942 to 1945, he served as a non-commissioned officer in the Air Corps Intelligence in the United States and Panama. In 1946, he became an instructor in speech at Cornell University, then professor and chair of the Department of Speech and Drama, before being named a professor at Penn State. In 1976, he received the Distinguished Teacher Award from the College of the Liberal Arts Alumni Association and in 1984 received the association's Distinguished Emeritus Award. He wrote approximately 50 articles and books and was co-founder and associate editor of the journal *Philosophy and Rhetoric*, published at Penn State. After retiring, he was named the first A. Craig Baird Visiting Professor in Communication Studies at the University of Iowa and served as visiting professor at the universities of Delaware, California-Davis, Washington, Colorado-Boulder, Georgia and Arizona.

Memorial contributions may be made to the Department of Speech Communications, in care of the Office of Gifts and Endowments, University Park, Pa. 16802.

Former professor of English, comparative literature was 88

Samuel Preston Bayard, former professor of English and comparative literature, died Jan. 10 at the age of 88.

Born in Pittsburgh, he was a 1934 graduate of Penn State with a bachelor of arts degree in English, and a 1936 graduate of Harvard University with a master of arts degree. He taught at Penn State from 1945 until his retirement in 1973 with emeritus status.



Photo: Greg Grieco

Neither cold, nor snow ...

Cold, snowy weather is no deterrent to Brian Balonick and fellow students in Bruce Lord's elementary survey course Forestry 366. They were out and about recently, surveying the fields north of Park Avenue on the University Park Campus.

An internationally known folklorist and musicologist, he contributed to the cultural history of the United States through his collection and notation of fiddle and life tunes, particularly in western Pennsylvania. He published two books, *Hill Country Tunes and Dance to the Fiddle, March to the Fife*, and hundreds of articles in scholarly publications. At the time of his death, he was finishing work on another book, which will be published posthumously.

Memorial contributions may be made to the Samuel P. Bayard Scholarship Fund, College of the Liberal Arts, Department of Comparative Literature, 101 Sparks Building, University Park, Pa. 16802.

Erie athletic director dies at 55

Herbert Lauffer, 55, longtime athletic director at Penn State Erie, The Behrend College, died Jan. 10 at the Cleveland Clinic, where he had undergone heart surgery in November.

For 29 years, Lauffer was a vital member of the athletic department at Penn State-Behrend, from his first days as the head men's tennis coach through his 23 years leading the men's soccer program.

Lauffer earned his B.S. in health, physical education and recreation from Slippery Rock State in 1963 and his M.S. in physical education from West Virginia University in 1968.

Lauffer tallied 131 victories as soccer coach at Penn State-Behrend, making him the all-time winningest coach in the college's soccer history. He earned NAIA "Coach of the Year" honors in 1976 and 1978. He was the founder and president of the Erie Youth Soccer Association; directed soccer camps and youth programs throughout his career; and was the co-director of the Wolverines soccer camp at Grove City College.

Lauffer served as Penn State-Behrend's athletic director for the past 16 years. During his tenure, he guided the program from NAIA Junior College status to NCAA Division III and Eastern College Athletic Conference membership. The number of athletic teams grew from eight to 12 sports under his guidance. In 1991, Lauffer initiated the Penn State-Behrend Athletic Hall of Fame.

A Herbert J. Lauffer Memorial Fund has been established at Penn State-Behrend. Contributions may be sent to the Development Office, Penn State-Behrend, Station Road, Erie, Pa. 16563-0107.

Other deaths

Paul L. Blair, plumber-fitter in the Office of Physical Plant, died Jan. 1. He was 86. He worked at the University from May 12, 1947, until his retirement May 26, 1973.

Robert Lancelot Clewett, former director of the MBA program and director of graduate studies in business administration, died Jan. 18. He was 85.

Clewett began working at Penn State in 1959. In 1974, he served on the organizing committee of the Faculty Club and served as first vice president. Before coming to Penn State, he was employed at the University of Pennsylvania Wharton School of Business. He received his bachelor's and master's degrees in economics from the University of California-Berkeley, and his Ph.D. in business administration from the University of Michigan.

Francis C. Kidd, maintenance worker, utility, at the Penn State Shenango Campus, from Sept. 17, 1970, until his retirement Dec. 7, 1978; died Jan. 10. He was 72.

William H. Patton II, assistant professor of veterinary science in the College of Agricultural Sciences, from Dec. 1, 1962, until his retirement Jan. 1, 1991; died Jan. 5. He was 71.

Joyce J. Reddick, nutrition adviser in the College of Agricultural Sciences, died Dec. 25, 1996. She worked in the college from July 5, 1988. She was 48.

Howard W. Sharpless, supervisor, Maintenance Food Service in Housing and Food Services, from Jan. 6, 1964, until his retirement March 1, 1989; died Dec. 16, 1996, at the age of 69.

Mary Alice Shea, a secretary in the Department of Biology for 17 years, died Jan. 18 at the age of 69. She retired from her University post in 1990. Before that, she worked at Wesvaco in Tyrone, Pa.

Betty S. Walker, secretary, Academic Services, from April 1, 1976, until her retirement May 1, 1986; died Dec. 14, 1996. She was 76.

Research

 Intercom 15
 January 30, 1997

Divorce affects children's lifelong views of marriage and families

 By PAUL A. BLAUM
 Public Information

Over the past 35 years, the increased number of divorces and changing attitudes toward divorce have affected not only children's attitudes toward marriage and divorce, but also on having families and living together, a study reports.

"Parental divorce influence children's attitudes, and parents' own attitudes seem to be one of the key mechanisms producing this result," William C. Axinn, associate professor of sociology, said.

Axinn worked with Arland Thornton, professor of sociology and research scientist with the Survey Research Center, Institute for Social Research, at the University of Michigan.

The researchers took their data from an 18-year longitudinal study of mothers and children in the metropolitan Detroit area, the mothers being selected from a sample of 1961 birth records.

"Maternal divorces not followed by remarriage have a strong negative influence on children's atti-



Research done by William C. Axinn, associate professor of sociology, indicates that parental divorce affects children's attitudes and actions into adulthood.

Photo: Greg Grieco

tudes toward marriage," said Axinn, also a research associate with Penn State's Population Research Institute. "Perhaps partly because of their disillusionment with marriage, the children of divorce often adopt other forms of intimate unions, especially cohabitation."

The children of divorce may view "living together"

as a form of trial marriage which will help them make better choices than their own parents about a mate. However, marriages following cohabitation themselves often result in divorce.

"Because the children of divorce marry later in life, they also have fewer children. At the very least, children of divorce, even if

they do not divorce themselves, are more accepting of divorce as an option," Axinn said.

"The norm of tolerance is strong in American society," he noted. "The increasing tolerance for divorce over the past three decades suggests, that even with changes in divorce laws, the cycle of divorce is not likely to be reversed."

Joint replacement requires post-operative test for blood clots

Short hospital stays may endanger some patients unless effective screening for blood clots is performed following joint replacement, according to a medical study.

More than 100,000 patients undergo hip and knee replacements every year in the United States, and these patients are at greater risk for potentially life-threatening blood clots than ever before. Shorter hospital stays and ineffective tests are seen as the culprits.

Dr. Vincent D. Pellegrini Jr., chair of the Department of Orthopedics and Rehabilitation at The Hershey Medical Center, did the study because of his concern that sending patients home only four days after surgery puts them at serious risk for blood clots. However, most clots can be detected if patients are screened with contrast venography, a dye study with an x-ray, Pellegrini said.

The risk period for clotting, or thromboembolic disease, extends for six weeks after surgery and is most like-



ly to develop within the first three weeks, Pellegrini said.

"We needed guidance on how to deal with these patients," he said. The study analyzed data from more than 1,600 consecutive patients undergoing total hip or knee replacement between 1984 and 1992.

Approximately 20 percent of the patients who have hip joint replacement surgery also have clots which should be treated with blood thinner. "Yet if you send everyone home with blood thinner, then 80 percent die, and that's risky," Pellegrini said.

Co-investigators in the studies were: Dr. C. McCollister Everts, dean of the College of Medicine; Dr. Greg S. Keller, formerly a medical student at Hershey and now with the Department of Orthopedics at Albany Medical Center; and William Ciccone II, a resident in orthopedics at Hershey.

Gangster images help Americans understand changing times

 By NANCY CRABB
 The Philadelphia Region

The gun-toting, big-spending gangster of the 1920s and 1930s was little more than a figment of the collective American imagination, writes a professor in a recently released book.

"The significance of this book is that it shows how Americans' understanding of crime — often highly distorted — shapes their ideas about society and the problems it faces," said David Ruth, assistant professor of history at Abington College. "Crime fascinates us because it tells us who we are and where we are going. Today's 'gangsta' rappers also reflect a message of identity and empowerment."

Despite his well-documented existence in scores of films, newspaper and magazine articles, novels and plays, the gangster figure is less a reflection of reality than an illustration of society's anxieties and beliefs about a rapidly changing America, writes Ruth in *Inventing the Public Enemy, The Gangster in American Culture* (University of Chicago Press).

"The underworld dramatized the development of an impersonal, highly organized, consumption-oriented urban society," the historian said. "Al Capone and his fictional peers were cast, in turns, as efficient businessmen, hedonistic spenders and playboys. They rebelled not only against the law, but against established moral codes."

Created largely by the media, the gangster helped Americans cope with their changing social world, and thus performed a useful function, he argues in *Inventing the Public Enemy*.

Crime films in the 1950s and 1960s explored youthful rebellion, while the "Godfather" series examined familiar themes of family responsibility, greed and sexual morality. Ruth sees similarities in current portrayals of today's urban gangs.

"At the end of the century as at its beginning, some observers are using crime to mark large groups as fundamentally different, dangerous and unworthy," he wrote. "Meanwhile, disaffected youths see in the video images of 'gangsta' rappers a violent message of identity and empowerment. Underworld imagery and its messages have changed, but their potency remains."

ATHLETICS

A regular column provided by Intercollegiate Athletics

Surgeon earns honors

Former Penn State football and wrestling All-America Dr. David M. Joyner received the NCAA Silver Anniversary Award. The award recognizes former student-athletes who have distinguished themselves since completing their college careers 25 years ago. A native of State College, Joyner was a co-captain and first team All-America for the PSU football team in 1971. He also earned All-America honors in wrestling. Now a nationally-known orthopedic surgeon, Joyner has been active in the Olympic movement, serving as head team physician for the U.S.A. in the 1992 Winter Games in Albertville, France.

Coach of the Year

Women's volleyball coach Russ Rose has been selected as the 1996 District Two Coach of the Year by the American Volleyball Coaches Association. Rose directed the Lady Lions to the NCAA Tournament for the 16th consecutive time, reaching the regional final before losing to host Nebraska. Penn State finished 31-3 overall and earned a share of the Big Ten title, the third time the Lady Lions have been conference champions since joining the league in 1991.

Powerhouse

The Penn State football team won the Lambert-Meadowlands Trophy, emblematic of Eastern football supremacy, for an unprecedented 23rd time. Penn State has won the prize seven times in the last 12 years. After Penn State, Army has the most Lambert Trophy wins with seven.

Top honors

Penn State assistant track and field Coach Bill Whittaker has been named as one of four coaches for the USA National Track and Field team which will compete at the World Championships in Athens, Greece, this August.

Timing is everything

The men's swimming 400-yard medley relay team earned a world ranking of No. 19 after posting a time of 3:49:19 at the U.S. Open in December. It was the third fastest time recorded in the USA in 1996. The medley relay quartet includes Brian Falme, David Boardman, Justin Martens and Greg Stacey.

Clarion River

continued from page 1

because it stands to benefit all of us in our part of Pennsylvania. By the same token, it was because of the work of so many Penn State students studying under the Department of Landscape Architecture worked so hard, as did local businesses, landowners and other interested parties, and it was a pleasure to see this community effort come full circle."

ANF personnel oriented the students with the river and provided needed funds for research practicalities such as canoes, film and gas money. In exchange, the students volunteered labor and expertise, surveying ability and a final report to accompany ANF findings to be presented for legislation. With the help of the Penn State students, the study was completed on April 2, 1996. The whole project took 4 1/2 years, much quicker than past studies which have reportedly taken up to 12 years.

"Rivers capture all kinds of things in people's imaginations, and this project was a very exciting event for the students," Yahner said. "Here they are, still students, and they have already contributed something significant to a real-life situation."

On Oct. 19, 1996, legislation declaring more than 50 miles of the Clarion River suitable for Wild and Scenic River designation was signed into federal law by President Clinton after unanimous approval in both the Pennsylvania State Senate and the U. S. Congress. Such a designation is designed to maintain the existing conditions of a river, including natural resource values, scenery, recreational uses, historical values, local communities and existing land use within the river corridor.

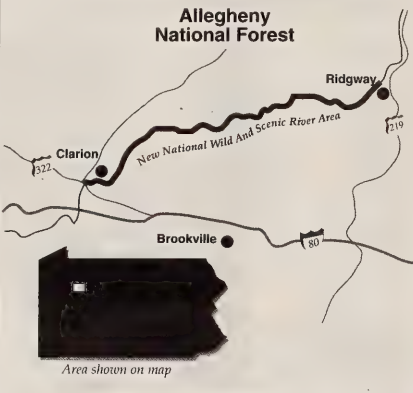
"The Clarion is a classic eastern river that has traveled the path of massive destruction to near miraculous recovery," Jones said. "Logging, tanneries, roads, factories, coal mines and settlements made the Clarion one of the most polluted rivers in America in the early 20th century. Today, the forest has returned and the quality of the water supports a significant trout population."

The legislation signed in October will ensure the Clarion's present condition, providing money and the development of a cooperative management plan for the designated areas of the river. In addition to the Department of Landscape Architecture, the study involved input from the Western Pennsylvania Conservancy, the Invertebrate Zoology Section of the Carnegie Museum and the Clarion University Department of Biology.

51.7 mile stretch from Ridgway to Piney Dam

Clarion designated National Wild and Scenic River

Conservancy Acquisitions Help Clear the Way



"Here they are, still students, and they have already contributed something significant to a real-life situation."

Tom Yahner
assistant professor of landscape architecture



The Clarion River

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'Thon time

Carrie Heatherly was one of many students from Kappa Delta sorority and Alpha Epsilon Pi fraternity who gathered at the fraternity's residence on East Foster Avenue in State College Wednesday, Jan. 29, to create posters to decorate the White Building gym for the Penn State IFC/Panhellenic Dance Marathon. The marathon, which begins at 7 p.m. Friday, Feb. 14, and runs through 7 p.m. Sunday, Feb. 16, raises money for the Four Diamonds Fund at The Hershey Medical Center. This year marks the 25th anniversary of the event. Last year, dancers raised more than \$1.2 million.

Photo: Greg Grieco

Senior vice president announces retirement

Robert E. Dunham, senior vice president and dean of the Commonwealth Educational System, announced that he will retire from Penn State effective Jan. 15, 1998, completing a career of more than 38 years at the University Park Campus.

After receiving his Ph.D. from Ohio State, Dunham began his academic career at Penn State on Sept. 1, 1959, as an instructor of speech. He received tenure and became a full professor of speech, and was named acting department head in 1965.

In 1966, Dunham moved into administration, becoming assistant to the vice president for residential instruction. He went on to become acting vice president for academic affairs, then vice president for undergraduate studies, vice president for academic services, vice president and vice provost, and in 1991, he was named senior vice president and dean of the Commonwealth Educational System.

In his role as senior vice president, Dunham was responsible for developing the recently approved plan to redesign CES. The plan will permit more four-

See "Dunham" on page 3

Making the transition

Come July 1, the Commonwealth College comprised of 12 campuses scattered across Pennsylvania should have a new leader and be springing to life as a new academic entity within Penn State.

With the announcement of Robert E. Dunham's retirement next year, the search will begin shortly for someone to serve as dean of what will be the University's largest college. A search committee is expected to be formed this month and Dunham

See "Transition" on page 3

Monroeville courses to move to McKeesport campus

Penn State is moving the graduate courses in health education, adult education and counselor education (chemical dependency) and continuing education classes from its Monroeville Center to the Penn State McKeesport Campus — only 10 miles away — at the end of the spring semester.

"The Monroeville Center will be discontinued as we will see increased efficiency by offering courses at another established University location," said James H. Ryan, vice president for Outreach and Cooperative Extension.

Students relocating to the McKeesport Campus will have the advantage of better library services, better and increased computer services and an overall improved learning environment. Currently enrolled students will be able to complete their degree or certificate program at McKeesport."

Penn State McKeesport is located in suburban McKeesport and White Oak. A residential 52-acre campus with about 950 students, the campus offers both undergraduate programs and continuing education. About 500

See "Monroeville" on page 3

Inside



New partnership

A new interdisciplinary program, that recently received a boost from the GE Fund, should help improve engineering education at the University by incorporating new teaching methods. For details, please see page 7.



Yikes!

Ever wonder why some volleyball competitors can reach those amazing jumping heights at the net? Turn to today's Focus on Research, page 15, for a surprising answer.

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■ Penn State Executive Programs

A 'Best Kept Secret' with a world-class reputation

By CHARLES C. DUBOIS
The Smeal College

Located in a deceptively quiet, shingle-sided building on the north side of The Nittany Lion Inn is one of the University's best kept secrets — Penn State Executive Programs, an arm of The Smeal College of Business Administration. Here at the Executive Education Center is where the Global Fortune 500 companies send promising, upwardly mobile executives to hone their skills for major steps up the corporate ladder. It also is where the leading firms from the U.S., Middle East, Africa, South America, Europe and Asia come for advice on how to transform themselves to compete in the rugged global marketplace.

Training and development for practicing business people is a multibillion dollar industry of international scope where the top business schools vie with consultants and in-company educational programs. A major shakeout is on the horizon in this intensely competitive arena and Penn State Executive Programs, now 40 years old, is striving to be one of the handful of full-line, major players left standing.

The *New York Times*, *The Wall Street Journal*, *Business Week* and *U.S. News and World Report* all rank providers of executive education and each publication rates Penn State among the highest. Along with such institutions as MIT, Columbia and the London Business School, Penn State is a founding member of the International Consortium of Executive Development Research.

As solidly positioned as these Smeal College programs are, its leadership is anything but complacent.

"We cannot be content with what we have achieved over the years," Albert A. Vicerre, associate dean for executive education, said. "We must be constantly ahead of the curve in meeting the real needs of the business community."

Penn State Executive Programs began in July 1956 during the administration of University President Milton S. Eisenhower. Under the leadership of



Teamwork

As part of one of the courses, participants in the Executive Programs participate in team-building exercises like this one held over the summer at Stone Valley Recreation Area. Programs at the Executive Education Center on the University Park Campus are set to begin again in mid-February.

Earl P. Strong, professor emeritus of management, the first Executive Management Program was held in the Beta Theta Pi house on Burrows Road. Today, the Executive Education Center (EEC) welcomes clients year-round. In the past three years alone, more than 2,000 people have traveled to University Park to attend programs from the United States and 45 other nations on six continents.

Originally built as the Penn State Faculty Club, the EEC now includes a state-of-the-art classroom which seats 40, the Glenn O. Hawbaker Reading Room, a half-dozen small meeting rooms, offices and lounges where participants and faculty can meet informally. While Smeal College professors predominate on the executive programs platform, scholars from other top schools and industry experts lead sessions as well.

In addition to its flagship four-week Executive Management Program, the

University now offers 11 other programs in general management, operations, marketing and human resources management, sessions which vary in length from one to three weeks. All are intensive, high-involvement programs in which participants work closely with faculty members and with each other.

Penn State Executive Programs reaches beyond the Nittany Valley to deliver programs overseas, most recently in Singapore and the United Kingdom.

Custom programs, an area in which Penn State is a recognized leader, have helped such companies as ARAMARK and Carpenter Technologies, the Reading, Pa.-based specialty steelmaker, with strategic overhauls. ARAMARK CEO Joseph Neubauer publicly credits Penn State with playing a major role in the transformation his company has undergone.

Similar praise has been heard from Conrail, which over the course of a 13-

year relationship with Penn State, has sent more than 700 of its managers to sessions specifically designed to meet the transportation company's needs. The consensus among Conrail executives is that Penn State has been a catalyst for needed company-wide communications and integration, as six once-independent rail firms have been consolidated into one organization.

As much as Penn State Executive Programs benefits its participants and client companies, rewards also are being reaped elsewhere in The Smeal College.

"Teaching business people is one of the toughest assignments any faculty member can have. It tests and sharpens your skills like nothing else," said Vicerre. "Smeal College students are major beneficiaries because they are being taught by the very same people who teach in the Executive Programs."

Research, central to the college's mission, gets a major boost from Penn State's Institute for the Study of Organizational Effectiveness (ISOE), whose primary mission is to improve the effectiveness of business operations through relevant studies, education and interaction between industry and the University community. Current work being carried out by ISOE researchers delves into executive leadership development, human resource management, global organizational structures and continuous improvement and innovation.

Penn State Executive Programs also provides The Smeal College with important financial tools to attract and retain outstanding faculty members and students. Revenue from the Executive Programs has been used to create the Earl P. Strong Executive Education Professorship of Marketing and the David H. McKinley Executive Education Professorship, in addition to scholarships which have benefited 20 Smeal MBA students, and fellowships which have supported 13 of the college's doctoral candidates. A third professorship is currently being created.

25-year Awards



SUSAN E. BRILHART



CHARLES BRUEGGEBORES



DANIEL FRITTON



LARRY D. GAMM



STANLEY P. MAYERS JR.



LINDA GUMMO

Observing 25 years of service at the University are, from left: Susan E. Brilhart, library clerk in Pattee Library on the University Park Campus; Charles Brueggebores, University architect; Daniel Fritton, professor of soil physics in the College of Agricultural Sciences; Larry D. Gamm, associate professor of health policy and administration, and Stanley P. Mayers Jr., professor of health policy and administration, both in the College of Health and Human Development; and Linda Gummo, staff assistant V in Housing, University Apartments.

Dunham

continued from page 1

year degrees to be offered at Penn State's campus locations through the creation of a 12 campus Commonwealth College; the establishment of two four-year colleges at Altoona and Abington; the merger of the Berks and Allentown campuses into the Berks-Lehigh Valley College; and the merger of the Schuylkill and Harrisburg campuses into the Capital College.

"It is simply impossible to list all of Bob's accomplishments," said President Graham B. Spanier. "Bob has played a central role in virtually all of the important changes that have brought about the evolution of Penn State into a university of national prominence. His work in redesigning the Commonwealth Educational System will have an enormous impact on students for generations to come. He has made higher education better in this state, and along the way made an enormous number of friends."

"If there is anyone at Penn State who I consider my mentor, it is Bob Dunham," said Spanier. "When I became an associate dean 18 years ago, and in every administrative position since then, Bob greatly influenced me and encouraged me. He was a key reason I wanted to return to Penn State, and I will feel something of a void not having him working with me in the administration."



ROBERT E. DUNHAM

A search committee will be formed this month to begin the process of finding a dean of the new Commonwealth College, which becomes official on July 1 as a result of the plan to reorganize CES. (See "Transition" story below.)

"When I first came to Penn State, I was convinced I would only be here a year or two," said Dunham. "But I really fell in love with this university and with the community. I was lucky enough to have jobs within Penn State that brought me great satisfaction and excitement, and you really can't ask for more than that. It has been a heck of a run, and I wouldn't have traded it for anything."

Dunham and his wife, Maureen, plan to continue living in the State College area. "I don't know for sure what we'll be doing after I retire," said Dunham. "I will probably work on my golf game and sail more, and we will certainly travel more. But we plan to stay involved with the University. It is such an important element in both of our lives, we will always be a part of Penn State."

Monroeville

continued from page 1

full- and part-time graduate students who are currently enrolled in the College of Education programs at the Monroeville Center could transfer to McKeesport.

Following a two-year internal review, Penn State announced last winter that it would discontinue using the Monroeville Center for continuing and graduate education, which is located in a converted elementary school building that the University purchased from the Gateway School District in 1988. No faculty or staff layoffs are expected as a result of the move, and the building is being offered for sale.

"The move is a result of our strategic planning process in which we continuously evaluate programs to be sure that they are delivered in a high-quality and cost-effective way, and to make changes as necessary," said Ryan. "We did not want to expand an outdated facility when we have excellent facilities nearby that will enhance the quality of our programs."



Consolidation

At the end of the spring semester, the University will move its graduate courses offered in health education, adult education and counselor education (chemical dependency) and continuing education classes from its Monroeville Center to the Penn State McKeesport Campus — only 10 miles away.

Obituaries

Lynn Christy, associate professor of English composition in the College of the Liberal Arts, from Feb. 1, 1938, until his retirement July 1, 1976; died Jan. 14. He was 86.

Robert L. Clewett, professor of business administration in The Smear College, from Sept. 1, 1959, until his retirement July 1, 1976; died Jan. 18. He was 85.

Maile A. Lindsey, driver/courier at The Hershey Medical Center, from Oct. 5, until her death Jan. 16. She was 55.

Alice V. Vingle, counter attendant, Housing and Food Services, from Dec. 20, 1955, until her retirement May 1, 1967; died Jan. 3 at the age of 93.

Luella M. Ripka, clerk typist B, Continuing Education, from Aug. 9, 1948, until her retirement Jan. 1, 1971; died Jan. 14 at the age of 88.

Mary Alice Shea, secretary B in the Eberly College of Science, from Sept. 27, 1974, until her retirement June 30, 1990; died Jan. 18. She was 69.

Transition

continued from page 1

will continue as senior vice president until mid-July 1998. The CES will be phased out.

The timing of Dunham's retirement is no accident. In fact, Dunham said his decision to step down from his post as senior vice president and dean of CES is part of his vision for Penn State's smooth transition to its redesign. After working at the University for nearly four decades, Dunham said he knew he did not have sufficient time to devote to the operation of the new college.

"It is a good time to make this type of move," Dunham said. "The plan has been approved and we're moving ahead, but Penn State needs someone in the leadership of this college who will be here for five or more years. In any position, it takes at least five years to begin to have influence and work with members of the community."

"I've worked here for a long time and I knew I didn't have five years to give this," he said. "But I'll be helping during the transition to help it move from the old system to the new."

Dunham said the search for a dean of the Commonwealth College will primarily focus on internal candidates.

"It's our feeling that we have a lot of good people right here who understand this complex organization and who know the background of CES and Penn State," he said. "It's reasonable to

expect that this post can be filled by July. This dean will then become part of the Council of Academic Deans, an advisory body to the president."

During the coming year, Dunham said his plan will be full as he helps implement the redesign plan for all new colleges, not just the Commonwealth College. He will also be pursuing the implementation of a management information report and will make it a "top priority" to rework the plans for Beaver, New Kensington and McKeesport campuses for their re-submission to the secretary of education. Those three campuses did not receive approval to offer additional four-year degrees. (See page 11 for an update.)

In addition, Dunham has been asked to act as a liaison with other colleges and universities across Pennsylvania during the transition period. In his liaison role, Dunham will look for opportunities to collaborate with other colleges and universities. He also will continue as vice chairman of the Penn College Board of Directors.

The senior vice president said most of the changes at the 12 campuses would go unnoticed by students, the general public and the majority of the employees. The change from the old system, CES, to the new Commonwealth College is in large part an internal restructuring, according to Dun-

ham.

"The Commonwealth College will have an academic focus and that's significant," Dunham said. "How faculty are organized by discipline and how those divisions relate to discipline faculty in other colleges will be important changes. You probably won't notice changes on an individual campus in the near future. They will evolve in time."

Since last year when the plan to reorganize Penn State's complex statewide campus system was outlined, creators of the plan have touted its capacity to provide more freedom to campuses, more control over academic affairs and more decision making at the local level.

Dunham said the 12 campuses under the Commonwealth College umbrella will come together to discuss promotion and tenure issues, as well as make curricular decisions. This new-found authority will now help Penn State locations be more responsive to community needs, which vary from region to region. It will also allow location-bound students to complete their course of study at Penn State.

The plan as approved recently by the state secretary of education authorizes 14 of the University's 17 Commonwealth Colleges to offer baccalaureate degrees. Campuses within the Commonwealth College include: Beaver, Delaware County, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Worthington, Scranton, Wilkes-Barre, Shenandoah and York.



LECTURES

Science lecture discusses humans' endangered past

"On Becoming Human" is the topic of the spring semester 1997 Penn State Lectures on the Frontiers of Science. Designed for the enjoyment and education of central Pennsylvania residents, the lectures take place on six consecutive Saturday mornings from 11 a.m. to noon on the University Park Campus.

The third lecture in the series, "Histories of Human Genes and Populations: Signatures of ancient Population Dynamics in Gene Difference," will be given by **Henry Harpending**, distinguished professor of anthropology and human development, on Saturday, Feb. 8, in 101 Thomas Building.

Harpending is known for his studies of the genetics and demography of contemporary human populations, especially in Africa, and for his



HENRY HARPENDING



current research on methods for reading population history from genes. During his lecture, he will discuss the origins of fully modern humans, including evidence from archaeology, fossils and genes. This evidence suggests the population ancestral to all modern humans was endangered for thousands of years or more, having only several thousand members.

The Penn State Lectures on the Frontiers of Science are sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on Shortlidge Road. For more information, contact the college at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.

Computing seminars run through April

The Institute for High Performance Computing Applications will hold a series of seminars on algorithms and architectures. Seminars are held from 3:35 to 4:25 p.m. every Monday in 215 Hammond Building on the University Park Campus, unless otherwise noted, and are open to the public. The speakers are:

■ **Feb. 10: Vigor Yang**, professor of mechanical engineering, on "Combustion Instabilities in Propulsion Systems."

■ **Feb. 17: Norm Swanson**, assistant professor of economics, on "Computing Issues in Econometrics."

■ **Feb. 24: Dan Lenoski**, Silicon Graphics Inc., on "cc-NUMA and Orion 2000 Architecture." (tentative)

■ **March 3: James Anderson**, Evan Pugh professor of chemistry, on "Quantum Monte Carlo."

■ **March 17: Iain Boyd**, professor of aerospace engineering, Cornell University, on "Parallel Implementation of a Monte Carlo Method for Nonequilibrium Gas Dynamics."

■ **March 24: George Karniadakis**, professor of applied math, Brown University, on "Spectral/hp

Element Methods for Parallel Computers."

■ **March 31: D. Yung**, IBM, Toronto, on "High Performance Fortran and Java Compilers." (tentative title)

■ **April 7: Farid Abraham**, IBM Almaden, on "Cracking a Tough Nut with a Big Computer: Studying Materials Failure using Millions of Atoms." This seminar will be held at 3:30 p.m. in 339 Davey Lab.

■ **April 14: Luigi Martinelli**, professor of aerospace engineering, Princeton University, on "Numerical Simulation of Viscous Flow for Aerodynamic Analysis and Design."

■ **April 21: Jeff Nucciarone**, Center for Academic Computing, and **Yusuf Ozyoruk**, postdoctoral scholar in aerospace engineering, on "High Performance Fortran: Status and Future."

■ **April 28: Gita Talmadge**, mechanical engineering, on "The Effects of Magnetic Fields on Electrically Conducting Fluids: An Introduction for Terrestrial Applications."

For more information, visit the institute's Web site at <http://icac.psu.edu/~lnh/ipca/spring597c97.html>.

Operetta lecture, recital

David Halin, baritone, and **Michael Rider**, piano, will give a lecture/recital at 8 p.m. Monday, Feb. 10, in Eisenhower Chapel on the University Park Campus. The lecture on the history of musical theatre through operetta will consist of works by such composers as Jacques Offenbach, Victor Herbert, Sigmund Romberg, Rodgers and Hammerstein, and Stephen Sondheim. The lecture/recital is given in partial fulfillment of the requirements of a bachelor of arts in music. The performance is free to the public.

Technology commercialization topic of lunch talk

Thor Bewulf, chairman of the U.S.-Australia Trade and Business Council in Canberra, Australia, will discuss "Maralinga and In-Situ Vitification: A Case Study in Technology Commercialization and Deployment in an Export Market" at a brown-bag, lunchtime discussion at 12:15 p.m. Monday, Feb. 10, in 201 Kern Building on the University Park Campus.

Canberra-based Bewulf, who was a visiting Myer Fellow at Penn State's Australia-New Zealand Studies Center in 1993, recently negotiated a multimillion dollar contract between the government of Australia and Ohio's Battelle Research Laboratories for the clean up of the former Maralinga nuclear test site in Australia. His discussion will include the implications of the nuclear waste at Maralinga, and the process of negotiating the deployment of innovative American technologies in an export market. The lecture, which is open to the public, is co-sponsored by the Australia-New Zealand Studies Center and the Penn State Research and Technology Transfer Organization. For more information, contact **Pat Corbett** at (814) 863-1603.

Harrisburg lectures examine future of health, disease

"Prognosis for the Decade: The Future of Health and Disease in Pennsylvania," an ongoing series of lectures, continues Tuesday, Feb. 11, with a presentation by **Michael J. Chorney**, associate professor of microbiology and immunology in the College of Medicine.

The lectures, held at the Penn State Downtown Center in Harrisburg, are designed to inform legislators, state government agencies and those involved in health care policy about projections on health and disease in the state. Chorney's talks will focus on "Diagnosis of Diseases: Current Realities and Future Promises," from 8 to 9 a.m.

At the same time on Tuesday, March 11, **David J. Hufford**, professor of humanities, will discuss "The Current Status of Alternative Medicine in American Society," on Tuesday, April 15, **Nancy R. Kruger**, director, Department of Nursing, will talk about "Health Promotion/Disease Prevention;" **Toni Miles**, director of the Center for Special Populations and Health, will address "Projections on the Health Care Needs of Pennsylvania's Minority Populations" in a May 6 talk from 8 to 9 a.m.; and **Dr. Julien F. Biebuyck**, associate dean for academic affairs and professor and chair of anesthesia, will wrap up the series with an hour-long talk on "Health Care Providers: Will the Demand Equal the Supply?" from 8 to 9 a.m. Monday, June 2.

To register for one or more of these lectures, call the center at (717) 783-0433. This series is sponsored by The Milton S. Hershey Medical Center.

Lecture focuses on doing business in Japan

The Feb. 11 installment in the Current Issues Lecture Series at the Penn State Harrisburg Eastgate Center will provide an inside look at doing business in Japan from a cultural and historical viewpoint.

Shohei Yoneda, international sales manager for Masland Division of Lear Inc., is the featured speaker for the noon public presentation sponsored by the Penn State Harrisburg School of Business Administration.

A graduate of Doshisha University in Kyoto, Yoneda earned a master's degree in business administration at Penn State Harrisburg and a master of science degree from the University of Arizona. For the past decade, he has worked in areas of manufacturing, quality and sales with Lear Corp., the world's largest independent automotive interior parts manufacturer. Most of his customers are from Japan, Korea and other Asian countries.

During his presentation, Yoneda will compare Japanese business with American business based on his experiences in automotive industries in Japan and the U.S., and make suggestions on what and how to prepare to do business with the Japanese. To register for his presentation, call the Eastgate Center at (717) 772-3590.

Geoscience talk dissects ice-core records

Richard B. Alley, professor of geosciences, will discuss "Ice-Core Records of Large, Rapid Climate Changes: The One-Year End of the Ice Age," at noon Thursday, Feb. 13, in 110 N. Henderson (The Living Center) on the University Park Campus.

Alley's talk, part of the lecture series offered by the Penn State Chapter of Sigma Xi, will focus on ice cores and what they can tell us about climate changes. The talk will include a brief overview of how cores are recovered and analyzed on top of a frozen ice sheet.

All lectures are free to the public. For more information, call **Pat Gong** at (814) 863-9963.

More Lectures

Acclaimed author to present dramatic reading March 19

The author of the acclaimed choreopoem, "for colored girls, who have considered suicide/when the rainbow is enuf," **Ntozake Shange**, will present a dramatic reading at Penn State Harrisburg on March 19.

Shange, one of America's most lyrical black voices as a playwright, novelist, poet and performer, will appear at 7 p.m. in the college's Student Center in the Capital Union Building.

Widely acclaimed as a representative for blacks, for women and for all those struggling to find their own voice, Shange has earned countless awards for her works, which include three novels, several books of poetry and many extraordinary plays.

She burst onto the New York literary scene in 1976 with her innovative and widely acclaimed "for colored girls..." which became a best-selling book and later an critical acclaim in a television version for PBS. She received an Obie Award off-Broadway for "for colored girls..." which also received a Tony nomination after

enjoying a lengthy stint on Broadway.

With *Liliane*, her newest and most provocative novel, she continues to explore the female intellect and sensuality by weaving together love, self-discovery, sex and race. An educator as well as an author, she has taught courses in the literature of people of color, feminist, aesthetics, writing and performance art at Rice University, Villanova University and the Maryland Institute of Art. As the Taos Heavyweight Poetry Champion of the World for three consecutive years, she continues to produce theatre pieces and do poetry readings and guest lectures. She is currently working on a project for HBO about the history of jazz.

Shange earned a bachelor's degree in American studies from Barnard College and later a master's degree from the University of Southern California. For information on the performance, which is open to the public, call (717) 948-6273.

Malcolm X Memorial Lecture is Feb. 20 at Robeson Center

The Center for Ethics and Religious Affairs will present its seventh annual Malcolm X Memorial Lecture at 7:30 p.m. Thursday, Feb. 20, at the Paul Robeson Cultural Center on the University Park Campus.

Dr. **Shahid Athar**, clinical associate professor at the Indiana University School of Medicine and U.S. representative for World Muslim Congress, will speak on the Islamic community's perspective on Malcolm X.

Athar, a native of India and U.S. citizen since 1978, has written and published more than 60 articles on Islam and is a recognized expert on Islamic studies. Some of his publications include: "Islamic Perspectives in Medical Ethics," "The Gulf Crisis and American Muslims" and "Mal-

colm X — Prince of Islam in North America."

After studying medicine in Pakistan, Athar completed his residency in internal medicine at Cook County Hospital, Chicago. A seven-time recipient of the American Medical Association's Physician Recognition Award, Athar continues in private practice, specializing in endocrinology, diabetes and internal medicine. Past chairman of Interfaith Alliance, Athar is an active member of the Council for National Interest, Christians and Muslims for Peace, Amnesty International, Physicians for Human Rights and the Islamic Medical Association.

For more information, call the Center for Ethics and Religious Affairs at (814) 865-6548.

Breakfast lecture presents information on fiscal impact of various land uses

The Breakfast with Penn State Series at the Berks campus of the Berks-Lehigh Valley College will present "The Fiscal Impact of Different Land Uses: Farmland Versus Development" on March 11 in the Forks Student Center Theatre. Continental breakfast will be served at 7:30 a.m., and the discussion will be held from 8-9 a.m.

Timothy W. Kelsey, assistant professor of agricultural economics at Penn State, has done extensive

research on various issues involving rural communities and local government in Pennsylvania including farmland preservation, population growth and decline in rural areas, and conflicts between farmers and non-farming neighbors. In addition, Kelsey also works with Cooperative Extension to help citizens and local government officials understand local public finances and the impact of population changes in rural areas.

Conference geared toward teachers, librarians, parents

Teachers, librarians, parents and others who help children discover the joys of reading may want to attend the annual "Children's Literature Matters" conference, April 11-12 at The Penn State Scenic.

Speakers include: — **Michael Dorris**, author of *Morning Girl*, *Quests and Sins Behind Trees*, winner of the Scott O'Dell Award for distinguished historical fiction.

— **Floyd Cooper**, author/illustrator of *Langston Hughes*, *Illustrator of Satchmo's Blues*, *Coyote Walks on Two Legs*, *Meet Danitra Brown*, *Brown Honey in Broomhedge Tea* and *The Girl Who Loved Caterpillars*.

— **Katherine Paterson**, author of *Lyddie*, *Jip: His Story* and the Newbery Award winning *Bride to Terabithia* and *Jacob I Have Loved*.

Distance education forums set

The American Center for the Study of Distance Education, in cooperation with the College of Education and Continuing and Distance Education, sponsors a series of discussion forums for faculty at Penn State.

The next event in the Faculty Forum series will be held from 3:30 to 5 p.m. Thursday, Feb. 13, in Studio D Mitchell Building on the University Park Campus. It is titled "Interaction in Distance Education: Transactional Distance and Interactive Television in the Distance Education of Health Professionals." **Whitney Rogers Bischoff**, assistant professor, Department of Nursing and Health Sciences, Texas A&M University-Corpus Christi, will be the guest speaker.

Bischoff's presentation is based on the research article "Transactional Distance and Interactive Television in the Distance Education of Health Profes-

— **Tom Feelings**, author/illustrator of *Middle Passage*, *Mojo Means One*, and *Illustrator of Soul Looks Back in Wonder*. Winner of the Coretta Scott King Award for distinguished illustration.

— **Jon Scieszka**, author of *Math Curse*, *The Sticky Cheese Man*, *The Truck Stop of the Three Little Pigs* and *The Time Warp Trio* series.

For more information about program content, contact: **Dan Hade**, associate professor of education, at (814) 865-2161. For information about registration, contact: **Carolyn Andersen**, conference planner, at (814) 865-5140 or by e-mail: Confenceinfo1@cde.psu.edu.

On the deadline to register is March 28. To receive a brochure call (800) PSU-TODAY (778-8632) or visit the Web at: <http://www.cde.psu.edu/C&I/ChildrensLiterature/>

sionals" (1996) Bischoff, Bisconer, Kooker, & Woods that appears in the latest issue of *The American Journal of Distance Education*. Registrants for the discussion forums will receive a copy of the article before the session.

Bischoff teaches in the undergraduate and graduate nursing programs at Texas A&M and is a leader in the educational use of electronic communications in nursing. She also will discuss the use of the Internet to foster interaction and welcomes your visit to the following sites before the forum: <http://www.sci.tamucc.edu/nursing/> and <http://www.sci.tamucc.edu/~bischoff/whr.html>.

To register, please contact **Nancy Hallberg** at (814) 865-5403; e-mail: ndw1@psu.edu, or use the World Wide Web registration form at <http://www.cde.psu.edu/D/E/FacDev/signup.html>.

Harrisburg business lectures continue

The 1997 Downtown Harrisburg Lecture Series, Current Issues in Business, continues with seven more talks throughout the year. Presented by the Penn State Harrisburg School of Business Administration, the series covers issues of both international and national importance. The lectures, from noon to 1 p.m., are held at the Eastgate Center on North Seventh Street. For more information about the series or to reserve seats, call the center at (717) 772-3590.

Upcoming events follow: ■ "A Harrisburg Firm Goes Global: A Case Study," presented by **Sheila Flick**, project manager with Global View, Adding Management Team AMP Inc., on April 8. ■ "International Investing: Understanding Foreign Financial Statements," presented by **Robert Larson**, assistant professor of accounting at Penn State Harrisburg, on May 13.

■ **Role of Social Ties in Corporate Competitive Strategy**, presented by **Carolyn R. Dextor**, professor of management at Penn State Harrisburg, on June 10.

■ "Making Money the Old Fashioned Way: A Case Study," given by **John Ritson**, vice president and chief financial officer, Walnut Acres Inc., on Sept. 9.

■ "Waiting in Line: Do I Have a Choice?" presented by **Karen Brown**, assistant professor of management science at Penn State Harrisburg, on Oct. 8.

■ "The Impact of Global Forces on Domestic Tax Policy," given by **Jeann Harris**, associate professor of accounting at Penn State Harrisburg, on Nov. 11.

■ "The Role of Higher Education in Community Development," presented by **Mukund S. Kulkarni**, associate professor of finance at Penn State Harrisburg, on Dec. 9.



Physical Plant develops master plan

In its Strategic Plan for Continuous Improvement, the Office of Physical Plant states that one of its objectives is to make CQI part of daily business in OPP. First, under the leadership of **Bill Anderson**, assistant vice president, the unit established a master plan to serve as the road map to fully implement CQI. Second, in order to get results using CQI, the unit trained and chartered nine teams to improve specific processes. Anderson's end objective is to have self-directed, high performance teams everywhere throughout the organization. Recently formed CQI teams include:

— Facility Documentation Process Action Team: sponsor, **Doug Donovan**; leader, **Rob Cooper**; facilitator, **Sue Petro**.

— Board of Trustees Presentation Material Preparation Team: sponsor, **Charlie Brueggebois**; leader, **Dave Breen**; facilitator, **Dot Green**.
 — Design, Construction and Facility Support "Standards" Process Action Team: sponsor, **Jeff Mallory**; leader, **Steve Maruszewski**; facilitator, **Candy Wert**.

— Restroom Cleaning/Restocking Process Action Team: sponsor, **Doug Donovan**; leader, **Dave Martin**; facilitator, **Larry Bair**.

— Litter Pickup Process Action Team: sponsor, **Doug Donovan**; leader, **Ron Eckenroth**; facilitator, **Dennis Smith**.

— Administrative and Financial Services Material Shipments Team: sponsor, **Carl Williams**; leader, **Joe Cessna**.

— Facilities Resources and Planning Waste Busier Team: sponsor, **Deborah Howard**; leader, **Jim Lettiere**.

— Materials and Equipment Requisition Team: sponsor, **Carl Williams**; leader, **David Stoner**.

— Design, Construction and Facility Support Renovation Crew Team: sponsor, **Jeff Mallory**; leader, **Chet DeFurio**.

For more information about CQI, please call **Louise Sandmeyer**, executive director of the Center for Quality and Planning, (814) 863-8721 or e-mail **LE518@PSU.EDU**.



Gift from the heart

Laura Gindesperger of the Red Cross checked freshman architecture student **Carmen Gerdes**' blood pressure before Gerdes gave blood at the Hetzel Union Building on the University Park Campus recently. The Red Cross will hold by-appointment-only blood drives at University Park from 10 a.m. to 4 p.m. Feb. 14 at Applied Research Laboratory and from 9 a.m. to 3 p.m. Feb. 17 at Reber Building. For an appointment, please call **Connie 237-2713**.

Photo: Greg Grieco

Dairy and Animal Science launches search for new department head

The College of Agricultural Sciences is conducting a national search for the position of head of the Department of Dairy and Animal Science. Responsibilities include administration of the budget, management of human resources, academic affairs and physical facilities. Other responsibilities will include recruitment, development and retention of highest quality faculty, staff and students, and encouragement of their professional development in an interdisciplinary environment.

Candidates must have a Ph.D. degree in an appropriate animal sciences field or a closely related discipline. Eligibility for tenured rank of full professor is required. An understanding of the land-grant system is essential. Demonstrated expertise or interest in University teaching, research and extension is expected. Excellent leadership, administrative, communication and

outreach abilities are essential. A strong commitment to scholarly achievement and educational excellence, as well as appreciation for the diverse interests and technical missions of the department, must be demonstrated.

Qualified individuals should send a letter of application; complete curriculum vitae; a statement of personal leadership philosophy; and the names, addresses, telephone numbers and e-mail addresses (if available) of five people who may be contacted for letters of reference to: **Gabriella A. Varga**, chair, Department of Dairy and Animal Science, 324 Henning Building, Department E, University Park, Pa. 16802; phone — (814) 863-4195; fax — (814) 865-7442; e-mail — **GVarga@das9.cas.psu.edu**. Application deadline is April 30 or until a suitable candidate is selected.

College of Agricultural Sciences seeks head for the Department of Horticulture

The College of Agricultural Sciences is conducting a national search for the position of head of the Department of Horticulture. The head serves as departmental administrative officer and program leader, and reports directly to the dean of the college.

Candidates should possess an earned doctorate in horticulture or a closely related discipline; a significant period of professional experience; administrative and program leadership experience with the ability to communicate effectively and serve as an advocate for the

department; experience working with agricultural industries; and experience in or knowledge of research, extension and resident education functions in the land-grant university system.

Applicants should submit a resume with the names of five references to: **Dan Stearns**, chair, 103 Tyson Building, University Park, Pa. 16802. Applications will be accepted until the position is filled, however, initial review will begin March 15. For more information, contact **Stearns** at (814) 863-6167.

Highlight on Undergraduate Education

Technology changing how engineers are taught

The GE Fund and the College of Engineering and Eberly College of Science have established a partnership to improve engineering education.

"Pathways to Effective Learning in Engineering," a \$431,734 three-year curriculum development grant from the GE Fund, will help integrate engineering problems and applications into two foundation physics courses for engineering students in a new "studio physics" format. It will also help develop a model for converting traditional engineering courses to Web-assisted classes.

Both facets of the grant will involve students in course changes, will integrate industrial partners' projects and mentoring into active-learning classroom problems, and will creatively exploit technology to facilitate cross-disciplinary interaction and learning.

"As engineering educators we wrestle with the challenge of keeping our students motivated during the early phase of their education while they master the scientific foundation they need in mathematics, chemistry and physics," said David Wormley, dean of engineering. "Support from the GE Fund for this project helps us address this critical challenge immediately, and will lay the

groundwork for integrating engineering applications into other base science courses in the future.

"The interdisciplinary nature of the project—in which faculty from our college will work closely with faculty from the Eberly College to develop the new courses—is important to the future of engineering education."

In studio physics, students attend several two-hour class sessions per week, or "studios," instead of standard lectures or recitations. Each session presents students with a new problem or "module," for which student teams must find a solution and submit a written report. The module problems are open-ended and require each team to bring many tools and concepts to bear in determining the solution. Learning is active and emphasizes teamwork, collaborative learning, writing skills and problem solving. Since lecturing on new material is kept to a minimum, students are expected to read assigned material in the textbook. At Penn State, studio physics was implemented for selected first-year physics courses in the fall of 1996.

Engineering and physics faculty will create modules integrating engineering mechanics into a physics course, and electrical engineering and electronics into the second physics course. In the first year of the grant, participants will develop:

- two pilot studio physics courses
- techniques or "models" for sharing interdisciplinary course materials on the Internet
- a student teaching intern program for the studio courses
- faculty development seminars in new teaching methods, such as multimedia presentations or using the Internet.

Subsequent years will see the pilot courses and Web techniques expanded to include additional engineering and science courses and faculty; evaluations and refinements will be ongoing.

Also in the GE Fund grant is an annual contribution of \$15,000 for two GE Learning Excellence Awards, to be presented to interdisciplinary faculty teams who promote learning excellence across traditional college boundaries. The College of Engineering also will contribute approximately \$454,000 to the project over the three-year period.

Principal investigators for the project are Dushy Sathianathan, assistant professor of engineering design and graphics, and Robert Pangborn, professor of engineering mechanics and associate dean for undergraduate studies, in the College of Engineering, and Howard Grotch, head of the Department of Physics in the Eberly College of Science.

Faculty/Staff Alerts

Chefs visiting Penn College

This month, two renowned chefs will visit the Pennsylvania College of Technology and work side-by-side with the college's hospitality students and faculty. On Saturday, Feb. 8, popular cajun and creole chef John Folse and a number of guest chefs will create a "Wild Beast Feast." On Friday, Feb. 21, the country's top female chef, Traci Des Jardins of Rubicon in San Francisco, will be the featured chef of the college's popular Visiting Chef Series dinner. Both dinners will be held in Le Jeune Chef restaurant on the Pennsylvania College campus.

For more information on the two Penn College dinners or tickets, contact Dawn Wolfe at Penn College at (717) 320-8000. Proceeds from the dinners benefit a scholarship fund for students enrolled in the college's culinary programs.

Talk to the president

The rapid changes in technology and how it affects higher education is the focus of the next edition of "To the Best of My Knowledge," the radio show featuring President Graham B. Spanier on WPSU-FM, 90.1, 91.5 and 106.7 The show, airing at 7 p.m. Tuesday, Feb. 18, gives the public an opportunity to call in and discuss this issue with Spanier during the one-hour program. The number to call is (800) 543-8242.

Award nominations sought

The Penn State Educational Office Professionals seek nominations for its Outstanding Office Professional Award. The award recognizes office employees who provide exceptional service to Penn State. All University office employees are eligible, except officers and board members of PSEOP. Selection criteria include professionalism, industriousness, job competency, leadership skills, resourcefulness, continuous quality improvement, teamwork, problem-solving skills, reliability, quality of work, positive attitude, professional development and volunteer service on University committees and University supported charities.

Contact Ronda Markley, chair of the Outstanding

ing Office Professional Award Committee, at (614) 865-1750 or by e-mail at rkh1@psu.edu for a nomination form or more information. Nominations are due by March 21.

Quality Expo '97

Don't forget to mark your calendars for the Fifth Annual Quality Expo on Continuous Quality Improvement from 11 a.m. to 3 p.m. April 17 in the Nittany Lion Inn Ballroom. Exhibitor registration forms are due Feb. 14. For more information, contact Louise Sandmeyer, executive director of the Center for Quality and Planning, (614) 863-8721 or e-mail LES1@PSU.EDU.

Do-it-yourself searching

Now through Wednesday, May 7, the University Libraries Do-It-Yourself Searching Service will be available Monday and Wednesday evenings from 6 to 9 p.m. in 105 East Pattee Library. This service gives students, faculty and staff a chance to do their own computer searching using a choice of more than 150 dial-up databases in a variety of subjects. Self-study guides provide users with the basic skills needed to do searches, but for best results users are advised to consult a librarian in their subject area. For Penn State students, faculty and staff, many searches are provided free of charge.

For more information, contact the Pattee Information Desk at (614) 865-2112 or the search service coordinator at (614) 865-3705.

Learn about electronic resources

The University Libraries are offering the following series of seminars in February to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars,

send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact Doris Herr at (614) 863-0325. Seating is limited so register early. Seminars are held in Tower Room 402, Central Pattee Library, unless otherwise noted.

More information on the seminars can also be found by typing HELP WORKSHOP when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.

- Penn State Libraries Catalog in LIAS
Feb. 10: 3-5 p.m.; Feb. 26: 10 a.m.-noon
- Beilstein CrossFire (Organic Chemistry)
Feb. 10: 10 a.m.-noon, in Room 5, Central Pattee Library
- Career Sources on the Web
Feb. 20: 5:30-7 p.m.
- Career Sources in the Sciences
Feb. 14: 10 a.m.-noon
- Census Data on the Internet
Feb. 25: 8:30-10 a.m.
- Earth Sciences databases
Feb. 21: 8-10 a.m.
- Engineering databases
Feb. 11: 10 a.m.-noon
- Literature Resources on the Internet
Feb. 27: 10 a.m.-noon
- Psychology databases
Feb. 21: 10:30 a.m.-noon
- Resources in Sociology and Anthropology
Feb. 13: 1-3 p.m.
- Spanish & Latin American Resources
Feb. 26: 1-3 p.m.

Enlightening lunch offering

For women who are confused by the current information regarding hormone replacement therapy, come to the brown-bag discussion "Hormone Replacement Therapy (HRT)—Who, Why and When" from noon to 1 p.m. Friday, Feb. 14, in 110 Henderson Building (The Living Center) on the University Park campus. Cost: None. To register, contact Jan Hawbaker at 865-3085 or JQH3@PSU.EDU.

The ARTS

AT PENN STATE



Fun with basketball

The Harlem Globetrotters will perform at 7:30 p.m. Feb. 20 at The Bryce Jordan Center on the University Park Campus. For information, or to find out about other events at the Jordan Center, visit the Web at <http://www.bjc.psu.edu/>.

Works on paper

On Feb. 11, the Palmer Museum of Art on the University Park Campus will open "Recent Gifts and Acquisitions: Works on Paper," an exhibition of works on paper, all of which have been added to the collection in

the last two years. The exhibition will focus on works from the 20th century, but will include two notable pieces from the 19th century.

Photography is particularly highlighted in the exhibition and will include printed photographs by

Walter Rosenblum and selections from a color portfolio by photojournalist and Penn State graduate Steve McCurry. "Recent Gifts and Acquisitions" will be on view through June 15.

Film festival at Hazleton

The Highacres Film Festival, a series of six films to be shown at the Hazleton Campus, continues Feb. 12.

All films will be shown in Room K-1 of the Kostos Classroom Building and will begin at 7 p.m. There is no cost and a discussion will follow.

— Wednesday, Feb. 12: "The Gods Must Be Crazy," hosted by Michael Santulli, associate professor of philosophy;

— Wednesday, Feb. 26: "Hoffa," hosted by Harold Aurand, professor of history;

— Wednesday, March 26: "He Said, She Said," hosted by Molly Wertheimer, associate professor of speech communication;

— Wednesday, April 2: "The Verdict," hosted by Ken Dudeck, associate professor of engineering; and

— Wednesday, April 16: "The 400 Blows," hosted by Stuart Erwin, instructor in French.

Bach's Lunch

The Penn State Bassoon Ensemble, directed by Daryl Durran, associate professor of bassoon in the College of Art and Architecture's School of Music, will perform for the 20-minute Bach's Lunch concert at 12:10 p.m. Thursday, Feb. 13, in the Helen Eakin Eisenhower Chapel on the University Park Campus.

The ensemble will perform works by baroque composer David Funck and Franz Schubert, whose 200th birth anniversary is being celebrated this year.

Audience members may take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

"Blue and White Montage"

The School of Music will present its annual extravaganza, "The Blue and White Montage," at 8 p.m. Friday, Feb. 14, in Eisenhower Auditorium on the University Park Campus. The "Montage" will feature 60 minutes of uninterrupted music presented by about 21 performing groups who will be placed in various locations around the auditorium.

Some of the units scheduled to participate are the University Symphony Orchestra, the Symphonic Band, Centre Dimension Jazz ensemble, Singing Lions, violin ensemble, horn ensemble, Orianna



BRYCE JORDAN CENTER

Heavy metal act Metallica coming

Metallica, American Music Award Heavy Metal/Hard Rock Artist of the Year for 1997, will perform at The Bryce Jordan Center on the University Park Campus at 7 p.m. Sunday, March 2, with special guest Corrosion of Conformity.

Metallica's success dates back to their debut album in 1983, Kill 'Em All, and is still continuing with the recent success of their new CD titled Load.

Tickets are \$35.50 and \$25.50, and are available at the Jordan ticket center, selected Uni-Marts, Penn State campus outlets in Altoona, Erie, Hazleton and Reading, or by calling (814) 865-5555 or toll-free at (800) 863-3336.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>

Singers, Concert Choir, percussion ensemble and others.

Tickets are available from the Arts Ticket Center at (814) 863-0255. Tickets for non-students are \$4.50; students and senior citizens \$3.

"Celebration of Love"

The Penn State Chamber Singers, conducted by D. Douglas Miller, professor of music, will present their 11th annual "Celebration of Love" performance at 7:30 p.m. Saturday, Feb. 15, in the Lobby of Old Main on the University Park Campus.

The evening consists of vocal chamber music sung by the 16 members of the Chamber Singers, interwoven with poetic readings of love texts by professors emeriti of theatre, Helen and Lowell Manfull, and two student actors.

This year's celebration also will involve all 50 members of the Penn State Concert Choir for certain portions of the vocal music.

Tickets are \$10 and should be secured in advance by calling (814) 863-2142 or by writing to Celebration Tickets, 114 Arts Building, The Pennsylvania State University, University Park, Pa. 16802. There will be a reception in the balcony after the concert.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, February 7

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Catherine Ciferri on "American Watercolors at the Palmer Museum."

■ School of Music, 8 p.m., Recital Hall. "Celebration of African-American Spirituals," Anthony Leach, director. For tickets, phone (814) 865-0431.

Saturday, February 8

Palmer Museum of Art, 11:30 a.m., Christoffers Lobby. Gallery Talk presents Robin Seymour on "Nineteenth-Century American Art."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "La Bohème—New York City Opera National Company." For tickets, phone (814) 863-0255.

■ School of Music, 8 p.m., Recital Hall. "Celebration of African-American Spirituals," Anthony Leach, director. For tickets, phone (814) 865-0431.

Sunday, February 9

■ Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "La Bohème—New York City Opera National Company." For tickets, phone (814) 863-0255.

■ School of Music, 8 p.m., Recital Hall. "Celebration of African-American Spirituals," Anthony Leach, director. For tickets, phone (814) 865-0431.

Monday, February 10

School of Music, 8 p.m., Recital Hall. Graduate Recital presents Celia Teh, piano.

Thursday, February 13

Multicultural Resource Center, 8 p.m., Paul Robeson Cultural Center. Teje Aduldeia in "Ethnic Man."

Friday, February 14

"A Tribute to Black Music," noon, Kern. Graduate Commons, noon, Kern Lobby. "Urban Fusion."

School of Music, 6 p.m., Old Main Lobby. "Celebration of Love." For tickets, phone (814) 865-0431.

School of Music, 8 p.m., Eisenhower Auditorium. "School of Music Montage." For tickets, phone (814) 863-0255.

Saturday, February 15

■ African Student Association, 6 p.m., Findlay-Johnston Commons. Dinner and dance titled "A Touch of Africa."

School of Music, 7:30 p.m., Old Main Lobby. "Celebration of Love." For tickets, phone (814) 865-0431.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Battle of the Big Bands, Round 2." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Michael Hooper, percussion.

Sunday, February 16

■ Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "Nai-Ni Chen Dance Company." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Graduate Recital presents Tim McKay, trombone.

SEMINARS

Friday, February 7

Dairy Science, 3 p.m., 101 Agricultural Sciences and Industries. C. Eugene Allen on "Land Grant University Program Adaptations Needed for the Next Decade."

Geography, 4 p.m., 206 Walker. John Cromar on "Defining Metropolitan Areas and the Rural-Urban Continuum."



At the Palmer

"Dismal Science: Photo Works by Alan Sekula, 1972-1996" on display at the Palmer Museum of Art on the University Park Campus through March 16.

Sunday, February 9

Archaeological Institute of America, 4 p.m., 101 Kern. Dennis Dirkmat on "Archaeological Osteology."

Monday, February 10

Continuing and Distance Education and the College of Education's Adult Education, 11:45 a.m. to 1 p.m., 502 Keller. Sara J. Parks on "Professional Perspective on Lifelong Learning."

Distance Education, noon, Studio D, Mitchell. "Creating Interaction in the Virtual Classroom."

■ Australia-New Zealand Studies Center and Penn State Research and Technology Transfer Organization, 12:15 p.m., 201 Kern. Thor Bewoul on "Maralinga and In-Situ Vitification: A Case Study in Technology Commercialization and Deployment in an Export Market."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Matt Newton on "Calibrating Three Sediment Delivery Functions for Different Physiographic Regions in Pennsylvania" and Zhijie Wang on "Vision-Guided Separation of Micropropagated Sugarcane Shoots."

Penn State Catholic Faculty and Staff Fellowship, 1 p.m., 212 Eisenhower Chapel. P. Jenkins on "Are the Media Anti-Catholic?"

Gravity Center, 2 p.m., 339 Davey Lab. John Baez on "Spacetime Aspects of the Loop Representation of Quantum Gravity-Part I."

Physics, 3:30 p.m., 339 Davey Lab. David Goodstein on "From Two Dimensions to Three Dimensions."

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Vigor Yang on "Combustion Instabilities in Propulsion Systems."

Tuesday, February 11

School of Visual Arts, 1 p.m., Palmer Lipson Auditorium. Printmaker Melissa Harshman will discuss her work.

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Tzvetan Drashansky on a topic to be announced.

Geoscience, 4 p.m., 112 Walker. Gordon Jacoby on "Long-Term Paleoclimatic Trends from Tree Rings."

Nutrition, 4 p.m., S-209 Henderson. Donald Beitz on "Cholesterol Reductions through Diet Manipulation."

Wednesday, February 12

Gerontology Center, 12:15 to 1:15 p.m., 110

Henderson Building. Donald A. Streit on "Femur Fracture and the Penn State Safety Floor."

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. Robert Haythornthwaite on "Yield Criteria and Flow in Granular Media."

Thursday, February 13

Faculty Staff Club and the Penn State Bookstore, 11:30 a.m., Nittany Lion Inn. Sue V. Rosser on "Reviewing the Issue of Women in Science and Engineering."

Gravity Center, 11:30 a.m., 339 Davey Lab. John Baez on "Spacetime Aspects of the Loop Representation of Quantum Gravity-Part II."

Physics, 3:30 p.m., 101 Osmond Lab. David G. Haase on "The Science House-Education Outreach from University Science Departments."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. G. W. Stewart on "Hyperbolic Triangularization."

■ East Asian Studies, 5:30 p.m., 112 Kern. Kenzaburo Oe to present a lecture.

Friday, February 14

Geography, 4 p.m., 206 Walker. Cynthia Brewer on "Killer Cartography: Map Design Research for the NCHS Atlas of United States Mortality."

Philosophy, 4 p.m., 124 Sparks. Joseph Play on "Difference and Identity."

CONFERENCES

Friday, February 7

Agricultural Economics and Rural Sociology, Nittany Lion Inn. "Sustainable Agriculture (PASA)," through Feb. 8.

Sunday, February 9

Poultry Science, Nittany Lion Inn. "Game Bird Conference," through Feb. 11.

EXHIBITS

HUB Art Alley Cases

■ African artifacts by Sharon and Jim Mortensen, through Feb. 16.

HUB Art Alley Panels

Unity Days and graphic design "Imagine a World," through Feb. 23.

Jay Browsing Gallery

■ Photography exhibit titled "Our Land" by Jay Sieminski, through Feb. 23.

HUB Formal Gallery

"Memories of Childhood," through Feb. 22.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Penn Panels

Perry Oliver, international printmaker, displays works, through Feb. 20.

Kern Tall and Flat Cases

Visual art display "Dust-Jackets" by Chip Kidd, through Feb. 16.

Palmer Museum of Art

"Dismal Science: Photo Works by Alan Sekula, 1972-1996," through March 16.

"Lifting the Light: A Century-Guided Separation of 'American Watercolors' by Winslow Homer, through May 18."

Zoller Gallery

Photo collage by Ken Graves, through Feb. 13.

Photography by Kristin Breslin Sommesse, through Feb. 13.

■ Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at URL: <http://icac.psu.edu/calendar/>

■ Outreach

Partnership results in reusable karate kick plates

"Kicking around a new idea" is a phrase which took on a literal meaning when the Pennsylvania College of Technology's Plastics Manufacturing Center assisted a southeastern Pennsylvania entrepreneur in developing a new product.

Through a partnership funded by the Northeast Tier Ben Franklin Technology Center, the Plastics Manufacturing Center helped research and design the "Brak Point Jr.," a product fielded by Timothy McCorry, president of The McCorry Group Inc., in Berwyn, Pa.

A company which relies heavily on outside agencies, consultants and manufacturers to provide products to meet market demand, The McCorry Group develops and markets reusable, patented "Brak Point" karate kick plates for adults, among other products. The "Brak Point" plastic kick plates are an alternative to the solid pine boards normally used to demonstrate and practice karate techniques. The reusable nature of the plate results from a unique, patented hinge structure that is molded into the plastic.

The "Brak Point" kick plates are marketed internationally through master distributors of karate and martial arts supplies. That same market called for a beginners or youth version of the product which led McCorry to seek assistance in designing

the "Brak Point Jr." In stepped Penn College's Plastics Manufacturing Center with its capabilities ranging from plastics materials research to computer-aided drafting (CAD).

The Plastics Manufacturing Center was involved in three major phases of the project: product research and design; materials research and testing; and product prototyping and market evaluation.

"Penn College was not shy about exposing me to all of their capabilities," McCorry said. "Often you go to an organization and they'll say, 'Yes, we can do that.' But, at Penn College they said, 'Yes, we can do that... and we can do this too ... and now, how about that?' The project couldn't have gone smoother. And, now, the junior kick plate is selling like hotcakes!" Among its international supporters are youngsters in Japan.

Proud of how his product has gained mass appeal, McCorry is likewise proud of the fact that the kick plates use post-consumer recycled plastic. To complete the picture of this Pennsylvania product, the kick plates are manufactured by Selmax Corporation Inc. of Selingsgrove, an injection molder. Funding for the project came from Ben Franklin's Environmental Technology Research and Development Fund in the amount of \$78,000. Both Penn College and The McCorry Group also committed "in-kind" support.



Working together

The "Brak Point Jr." reusable karate kick plate enables students to practice their kicks without using solid pine boards.

Photo: Courtesy of Penn College

Nursing students help to improve quality of living

Penn State Harrisburg students earning their bachelor of science degrees in nursing are working with the Housing Authority of Dauphin County and Pineale Health Home Care Agency on a unique project in the Harrisburg area.

These agencies were awarded a three-year grant to provide assessment and intervention to Housing Authority residents, who are often elderly and disabled. These residents often become isolated from friends, family and the community and develop health problems that can go undetected. To halt this cycle, the Housing Authority will use Penn State Harrisburg nursing students to identify both existing and potential problems among residents. Then they will develop an effective plan of care and provide case management services that link residents to the appropriate community service agencies for necessary services.

The grant, received jointly by the county's housing authority and Pineale Health Home Care Agency, is being provided by the Pennsylvania Department of Housing and Urban Development and will be used to fund the position of a senior citizen coordinator to oversee the project. Penn State students will be working together with nursing students from Messiah and York colleges.

Although the grant extends only over a three-year period, it is hoped that the schools will continue working together on this and future projects.

Harrisburg, PENNTAP combine to curb pollution and lower manufacturing costs

Penn State Harrisburg is teaming with the University's Pennsylvania Technical Assistance Program (PENNTAP) to undertake a project designed to help manufacturers lower their operating costs by eliminating pollution and minimizing waste.

With a \$50,000 grant from the Environmental Protection Agency, PENNTAP and Penn State Harrisburg's Environmental Technology Center will complete a two-year study on pollution prevention. The study will help three Pennsylvania manufacturers find and implement cost-savings opportunities through the reduction of waste and the lowering of emissions. The intent is to use recent developments in pollution prevention and sustainable engineering methodology to assist manufacturers. Businesses interested in participating are being sought.

"In the past, we looked a lot at treating waste at the end of the pipe," said Penn State Harrisburg's Charles Cole, acting director of the School of Science, Engineering and Technology. "We looked to lead industrial processes produce waste materials and then deal with it. Now, the emphasis is on moving the thought process and treatment of waste back into the project. It's called green engineering and sustainable engineering."

"In recent years, sustainable development has become a major focus of public policy makers," said Warren Weaver of PENNTAP's Southeastern Pennsylvania office. "In coming years, the business community will be talking about sustainability. They are already changing products and manufacturing processes to increase their product quality and reduce their wastes, their inefficiencies and therefore their costs. Leaders of world-class manufacturers have set goals that are characterized by Zero Inventory, Zero Defects and Zero Emissions."

The State Department of Environmental Protection has emphasized that businesses can save money by adopting a pollution prevention plan and striving for zero discharge. For every dollar spent on pollution prevention, a company saves at least \$5 in raw materials, time associated with meeting, reporting and permit requirements and in waste treatment and disposal costs, according to a 1993

"(The business community is) already changing products and manufacturing processes to increase their product quality and reduce their wastes, their inefficiencies and therefore their costs."

Warren Weaver
PENNTAP

New Jersey study. The elimination of waste reduces risk, so, for example, banks are willing to provide financing at better rates, or insurance rates drop when workers are no longer exposed to hazardous substances, or liability costs drop as fewer dangerous substances are kept on site, according to DEP.

DEP is a strong supporter of this project and helped convince EPA to fund the study. The study team consists of three Penn State Harrisburg engineering faculty: Cole, R. Scott Huebner and George Partridge; Andrew Donaldson, a Penn State Harrisburg research assistant; and two PENNTAP environmental specialists: Sharath Annamandala and Weaver. There is no charge to the participating companies.

One product that will come out of this program is a workbook and guidelines for industry to use, which will provide tips and a check list approach for businesses to rate their systems.

"The businesses targeted by the project will be smaller ones that do not have the resources to do it themselves," Cole said.

"The region's residents will be able to see how this effort benefits them," Huebner said. "Basically it's a quality of life issue. The net result of all these activities is to ensure the quality of life for future generations."

Anyone who would like more information or who may be interested in participating in the study should contact Huebner at (717) 948-6127. <http://www.pennstate.edu/interac>

Grant will allow update of historical databases

By STEVEN HEVNER
Penn State Harrisburg

Federal and state agencies will benefit from easier access to information on Pennsylvania's cultural and historic resources thanks to a project in progress at Penn State Harrisburg's Institute of State and Regional Affairs. The Pennsylvania Department of Transportation has awarded a grant of nearly \$100,000 to the institute to update database records at the Pennsylvania Historical and Museum Commission. The commission houses information on the 103,000 historic structures, 16,000 archeological sites and 1,700 archeological surveys.

According to the National Environment Policy and National Historic Preservation acts, federal agencies and their designees have a responsibility to consider historic and archaeological resources that may be affected by their projects. For example, before building a road, PennDOT must research the area for historic properties.

"The current method to retrieve information is a very labor-intensive process," said Ron Uroda, project manager at the institute.

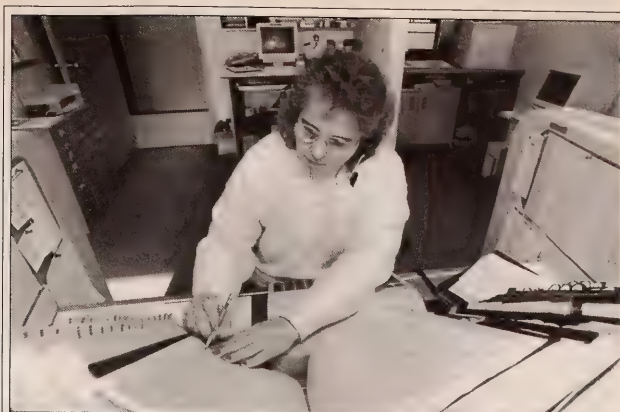
Uroda explained that the original documentation on the historic properties consists of single copies of survey forms, maps, reports and related materials housed in a small search room in the Bureau for Historic Preservation at the commission. The institute is charged with developing a Cultural Resource Geographic Information Systems database to facilitate the retrieval process. Using this format, information will be virtually a keystroke away.

"The GIS map combines graphic elements with the data base," Uroda said. "You can do sorts and queries with GIS and in addition, the results show up on a map, so you can see visually where they are all."

The map will be designed with different layers of information including topics such as: roads, zip codes, county lines, highway systems, municipalities and markers showing the locations of historic sites. As an information retrieval system, the GIS can substitute for the paper files to rapidly locate what is already known about a specific project area, including inventory and location of known resources within the project, as well as key attributes.

"This is a five-month pilot program," Uroda said. "We picked one county to try to determine how long it will take to do the entire state."

In May, the institute will evaluate the final product, the time involved and any problems encountered, and make an estimate of staff and resources necessary to complete the rest of the state. At that time, PennDOT will decide whether to continue the project with the institute.



All in a day's work

Penn State telephone operator Cathy Rhoads checks a phone number for a caller. University operators handle an average of two calls per minute to check numbers in the directory, which is updated weekly. Last year, they handled roughly 600,000 calls for directory assistance.

Photo: Greg Grieco

Center requests fellowship nominations

The Australia-New Zealand Studies Center will nominate one person for the Ian Axford (New Zealand) Fellowships in Public Policy, which were established by the New Zealand government in 1995 to reinforce the links between New Zealand and the United States.

These Fellowships give outstanding American professionals the opportunity to spend six to nine months studying, traveling and gaining practical experience in public policy in New Zealand, including first-hand knowledge of economic, social and political reforms, and management of the government sector.

Jan Axford Fellowships are open to United States citizens with at least five years' experience in their professions. The focus of the fellowship is on mid-career development; these awards are not intended for basic

research or the earning of a degree. Candidates will put forth proposals for study in New Zealand, in any field of public policy including, but not limited to, health care, welfare reform, legal and judicial issues, community development, education, employment, environmental policy, public sector reform, economic management, and program evaluation in the government sector.

Nominations (including self-nominations) or curriculum vitae should be submitted to the Australia-New Zealand Studies Center, The Pennsylvania State University, 427 Boucke Building, University Park, Pa. 16802, by Friday, Feb. 21. Questions should be directed to Patricia Corbett: telephone — (814) 863-1603; fax — (814) 865-3336; or e-mail — pac@psu.edu.

■ Faculty Senate news

Plan OK paves way for other proposals

Withdrawing its request for new four-year degree programs at Penn State's three Pittsburgh-area campuses allowed state Education Secretary Eugene W. Hickok to give his approval to the University's modified plan to reorganize the Commonwealth Educational System, University President Graham B. Spanier emphasized at the Jan. 28 University Faculty Senate meeting.

"Nothing in the modified plan was turned down," Spanier told the Senate.

The University hopes to prepare a fully-documented proposal for new four-year programs at the Beaver, New Kensington and McKeesport campuses in the future.

"We want to make a very persuasive case (about increasing four-year offerings at the three campuses), and we intend to do so," Spanier said.

On Jan. 14, the University got Hickok's approval for its plans to reorganize CES. Under the plan, 14 of Penn State's 17 Commonwealth campuses are now authorized to offer baccalaureate degrees. Driven by changing

demographics of Pennsylvania's residents, the comprehensive plan spells out the future structure of the University (Intercom, special edition, Jan. 20).

After hearing Hickok express his feelings that there was insufficient documentation of the need for new four-year programs at Beaver, New Kensington and McKeesport, University officials decided to withdraw those requests. Plans for the three campuses will be resubmitted following the development of further documentation. The New Kensington campus already offers four-year programs in nursing and electromechanical engineering technology, and those programs will continue.

In other business, the Senate heard reports on several topics, including a report from Philip Klein, outgoing chair of the Senate Committee on Faculty Rights and Responsibilities, and a report on the use of about \$7.8 million for computing facilities and related programs and services. The funds were generated by student computer fees.

Appointments

Agricultural Sciences names coordinator of science information

Charles D. Gill has been named science information and news coordinator in the College of Agricultural Sciences. In this position, he will provide direction for news and public information efforts in connection with college research, teaching and cooperative extension programs and will coordinate staff assignments, publicity and special projects.



CHARLES D. GILL

From 1990 until his appointment, Gill was a writer-editor in Agricultural Information Services, where he was responsible for writing press releases, providing publicity support for Ag Progress Days and other special events, and coordinating statewide radio coverage of the Pennsylvania Farm Show. Before joining Penn State, he was public relations manager for Hobby House Press Inc. in Cumberland, Md., where he planned and executed public relations and publicity outreach for books, magazines, authors and special events. He previously was news director for radio stations WFRB-AM/FM in Frostburg, Md., and was a stringer for United Press International.

Gill attended Allegheny College in Meadville, Pa., and has a B.A. in communication studies from Penn State.

Arts and Architecture welcomes new director of alumni affairs

Joyce Hoffman has been named the new director of alumni affairs and special events for the College of Arts and Architecture. Hoffman, former assistant to the dean of The Smeal College of Business Administration, will work with the Arts and Architecture Alumni Board, serving as a liaison between the College of Arts and Architecture and the Penn State Alumni Association. Hoffman will be responsible for planning, implementing and managing all activities of the college's alumni relations programs.

As assistant to the dean in The Smeal College, Hoffman coordinated activities of the college's board of visitors, planned and managed special events for alumni and friends of the college, and served as a liaison between the dean and students, faculty and external constituents.

Before joining Penn State in 1991, Hoffman spent more than 10 years in the banking industry. From 1986 to 1991, she was a private banking



JOYCE HOFFMAN

and sales coordinator with SunTrust Bank in Nashville, Tenn., managing both a sales incentive program for bank customer service representatives for offices throughout the bank's 33 offices; and a group of private bankers assigned to work with the bank's affluent clientele. Before that, Hoffman worked in SunTrust's Marketing Division as public relations/special events coordinator.

Hoffman was a volunteer for the board of the Tennessee Performing Arts Center and has served as membership chair for one of its affiliate programs, Bravo!Nashville. She also volunteered for Senior Citizens Inc., a Nashville-based, not-for-profit organization serving the senior citizen population of Davidson County, Tenn.

Several key positions filled at Philadelphia region campuses

Several key appointments for the Philadelphia region have been made recently.

Lynn Marie Johnson, formerly director of development for the three Penn State Philadelphia-area campuses, has been named director of development for the Delaware County campus. **Gerald T. McLaughlin**, director of development and University relations, Penn State Great Valley, comes director of development for the Great Valley Graduate Center. **Joseph G. Bisconti**, formerly director of development and University relations for the Philadelphia region, becomes director of University relations, Philadelphia Region.

Johnson, a Philadelphia native, joined Penn State in 1994 after serving as executive director of the Philadelphia branch of the NAACP. Before that, she was special assistant to the president and director of public relations for Cheyney University of Pennsylvania. She is a graduate of the Delaware County Campus and Temple University, where she received a bachelor's degree in communications.

McLaughlin also joined Penn State in 1994. Before coming to the University, he served as director of annual fund and alumni affairs at Gwynedd-Mercy College in suburban Philadelphia. McLaughlin also served in key leadership roles for nearly 15 years at the American Red Cross in Philadelphia. There, he held positions as director of branch management, supervising 10 field offices across the region, and assistant director of human resources, among other posts. He received a bachelor's degree in English from Mansfield University of Pennsylvania and a master's degree in English from Kansas State University. Johnson and McLaughlin will report to **Elaine Rhodes**, director of University development.

Bisconti, a Penn State veteran of more than 25 years, has served in a variety of leadership positions with the University. Before his most recent regional roles, he was director of University relations at the Delaware County campus. He holds a bachelor's degree in journalism from Penn State and a master's degree in public relations administration from Syracuse University.

Bisconti has played a key role in developing and implementing the University's first efforts toward regionalization. In his revised role, he will report directly to **Steve MacCarthy**, executive director of University Relations.

Pool coordinator to oversee several programs at University Park

Jon B. Larson, a former PIAA, YMCA and high school All-American swimmer from Bethlehem, Pa., has been named pool coordinator in charge of the Nittany Lion Aquatics Swimming and Diving Programs. His major responsibilities include overseeing the comprehensive training program for competitive swimmers of all ages living within a 50-mile radius, springboard diving for novices through junior Olympic caliber divers, Aquasize classes taught in the Natatorium and White Building and developing a master's swimming program for individuals older than 25.

As a swimmer and a coach, he has been involved in swimming programs at Mission Viejo, Calif., Arizona State University, the University of Alabama, Mission Bay Makos, Boca Raton, Fla., and Coronado Navy Swim Association in San Diego.

Larson has been involved in all areas of competitive swimming and has worked with former Olympic head swimming Coach **Don Gambril**. He has received numerous coaching awards and honors including "Coach of the Year" and President of the Swimming Coaches Association in San Diego, where he has spent the last seven years.

Materials Research Laboratory welcomes programs director

Gary L. Messing, professor of ceramic science and engineering in the Department of Materials Science and Engineering, has been named intercollege research programs director for the Intercollege Materials Research Laboratory. For the past five years, Messing has served as director of the Particulate Materials Center.

Messing received his B.S. in ceramic engineering from the New York State College of Ceramics at Alfred University and his doctorate in materials science and engineering from the University of Florida. He was a research scientist at Battelle Columbus Labs for two years before joining Penn State in 1980. He was promoted to professor in 1989. During his tenure at Penn State he has served as a visiting professor at the University of Patrice and a research Fellow at Curtin University of Technology, Perth, Australia.

He has published more than 140 papers on various aspects of ceramic processing and has co-edited nine books. He has been a co-organizer of the International Ceramic Processing Science Conference since 1986. Messing is co-editor of the *Journal of the American Ceramic Society* and is on the editorial board of the *Journal of Sol Gel Science and Technology*. He received the Wilson Research Award of the College of Earth and Mineral Sciences and the Richard M. Fulbright Pacific Award for his research on seeding of high temperature transformations. He was named a Fellow of the American Ceramic Society in 1990, and currently serves on its board of trustees. He is a member of the Materials Research Society, American Ceramic Society, American Chemical Society and the American Institute of Chemical Engineers.



GARY L. MESSING

Partings

Eberly dean heads to University of Maryland

Gregory L. Geoffroy, dean of The Eberly College of Science since 1989, has been named vice president for academic affairs and provost of the University of Maryland at College Park, effective June 1.

Geoffroy joined the Penn State faculty in 1974 as an assistant professor of chemistry and went on to hold Guggenheim and Sloan Foundation faculty fellowships and a Dreyfus Teacher-Scholar grant, in recognition of his abilities as a researcher and educator. He became



GREGORY L. GEOFFROY

head of the chemistry department in 1988.

During his administration as dean, the college became Penn State's first academic unit to be named in recognition of a benefactor: the Eberly family of Uniontown, which endowed eight faculty chairs and provided other faculty, student and program support. His tenure also witnessed significant strengthening of the national reputations of individual departments, increases in research funding and new initiatives aimed at boosting the quality of undergraduate education.

Longtime professor of French has emeritus status

Richard L. Frautschi, professor emeritus of French, has retired. His association with Penn State spanned 26 years and included departmental administrative management along with teaching and research.

Frautschi received his B.A. degree in French and English in 1949 from the University of Wisconsin, his M.A. degree in French from Harvard University (1953), and his Ph.D. degree in French and Italian from Harvard University (1958). He also holds two licence certificates from France, one in literature from the Université de Bordeaux and one in history from the Université de Paris. He joined the Penn State faculty in 1970 as the head of the Department of French, a position which he held for 19 years.

As a scholar, Frautschi has published five books and textbooks and more than 70 articles in European and



RICHARD L. FRAUTSCHI

American journals on 18th-century French literature. One of his major works, the *Bibliographie du genre romanesque, 1700-1800* (with Angus Martin and Vivienne Mylne) will be published by the Voltaire Foundation (Oxford) in 1998. Another book project is in progress.

As a teacher, Frautschi taught French language and literature at all levels. As department head (1970-1989), he continued his teaching and publication activities while, at the same time, initiating a number of curricular innovations both at the undergraduate and graduate levels.

Although officially retired, Frautschi not only continues his research but also is actively involved in Penn State's study abroad programs.

Associate professor retires after 37 years

Robert J. Foster, associate professor and chair of engineering design and graphics in the College of Engineering, has retired after 37 years with Penn State. All of Foster's undergraduate and graduate degrees were earned at Penn State.

Starting his career as an instructor in 1959, Foster provided many years of strong leadership and teaching for the University's engineering program. He served the University Faculty Senate Committee on Curricular Affairs through membership on various committees, and served as program chairman for engineering graphics. During his career, he taught an estimated 6,600 students and made notable contributions to the first-year engineering program, and also was active in developing an experimental first-year engineering course. Foster was instrumental in the development and implementation of the first-year curriculum at 19 Penn State campuses.

Over the years, he has authored many papers and four McGraw-Hill



ROBERT J. FOSTER

texts on the subject of engineering design graphics. He has been involved with the *Engineering Design Graphics Journal* as contributing author, reviewer and associate editor. Interested in studies of student retention, Foster was a member of a national Research Council Task Force on Retention. He

also served as a visitor for the Accreditation Board for Engineering and Technology. In addition, Foster was actively involved in the American Society for Engineering Education (ASEE), where he served as the chair of Engineering Design and Graphics Division in 1985-86, and was the recipient of the ASEE-EDGD Distinguished Service Award. Foster is affiliated with the Tau Beta Pi and Pi Tau Sigma honoraries.

Foster and his wife, Maggie, will continue to reside in the State College area where he plans to do volunteer work in the church and community, and be an active grandfather.

Food laboratory attendant retires after 29 years service

Geraldine M. Rose, food laboratory attendant, has retired after more than 29 years of service.

Rose began her career at the university working in food service at Redifer Dining Hall. After seven years, she moved to the nutrition department, assisting students and faculty in the preparation and clean

up of all of the food labs. She also purchased supplies for various research projects.

Originally from Mississippi, Rose plans to visit her family and become involved with volunteer programs during her retirement. She says she misses the nutrition department and especially the students.

Several on staff retire from University after long careers

Dorothy Campolongo, research nurse for the Noll Physiological Research Center, has retired after more than 21 years of service.

Jean A. Coover, staff assistant V at Penn State Harrisburg, from July 24, 1972, to Nov. 1, 1996.

Patricia K. Erdman, staff assistant VI in the Corporate Controller's Office, from Sept. 20, 1973, to Oct. 1, 1996.

Charles Galgoczi, director of graduate admissions and programs, Research and Graduate School, from July 1, 1970, to Oct. 1, 1996.

Patricia L. Groves, staff assistant VI at the Penn State DuBois Campus, from Sept. 27, 1976, to Oct. 1, 1996.

Linda M. Grove, marketing coordinator I for The Hershey Medical Center, from July 1, 1970, to Sept. 7, 1996.

Ronald G. Hoover, manager, data administration in Computer and Information Systems-Administration, from June 15, 1970, to Oct. 1, 1996.

Claire E. Markham, staff assistant VI in the College of Education, from Nov. 1, 1982, to Oct. 1, 1996.

Charles W. Naspinsky, purchasing agent, Business Services, from July 1, 1972, to Nov. 1, 1996.

Donald F. Wilkinson, supervisor, Airport Operations, from Sept. 1, 1992, to Oct. 1, 1996.

Arlene R. Barnes, staff nurse at The Hershey Medical Center, retired Oct. 26, 1996.

Ruth P. Bowman, staff assistant VIII at The Hershey Medical Center, from Nov. 1, 1971, until Nov. 9, 1996, 1996.

Humphrey Fellowships' benefits far-reaching

The University, community government and the local school district are cooperating in a program to teach and mentor rising administrators from developing countries and in the process, are reaping the benefits of new perspectives.

"This academic year, we have 11 Hubert H. Humphrey Fellowship professionals from Asia, Africa, Europe, the Middle East and the Caribbean working with faculty, State College Borough officials and State College Area School District administrators," said Syedur Rahman, who is program coordinator along with Nancy McDonnell. "The fellows are working in areas from computers and university administration, to school management, local government and industrial management."

The Hubert H. Humphrey Fellowship Program for International Visiting Scholars provides mid-career professionals from developing countries with opportunities for advanced study and professional work-related experiences. Sponsored by the United States Information Agency, the program is administered nationwide by the Institute of International Education. Penn State's program, hosted by the Institute for Policy Research and Evaluation, is one of only 11 nationwide where Humphrey Fellows pursue individualized programs of study.

The Humphrey Fellows take on yearlong professional affiliations with a unit in their field of interest, which provide an opportunity to learn about U.S. organization and management. At both the University Park Campus and Commonwealth Campuses, administrative and academic units provide professional affiliation opportunities.

Fellows' placement in University offices, or local businesses or local government offices also adds valuable learning experiences to both the fellows and the offices with which they are affiliated. Every attempt is made to link the fellows with a professional experience in their primary area of interest.

"The fellows are working in areas from computers and university administration, to school management, local government and industrial management."

Syedur Rahman
program co-coordinator

In addition, Humphrey Fellows are a valuable resource to the Penn State community. Either individually or in groups, they make presentations on topics of national and international interest and serve as guest lecturers in classrooms and before community groups. As a result, organized exchanges have been set up with student bodies, faculty committees and community organizations. Both the State College Area and Bellefonte Area School Districts in Centre County have received funds from the Humphrey program to enable the districts to honor high school seniors who make significant contributions to increasing international understanding.

Since the beginning of the program, Penn State has hosted 140 Humphrey Fellows from 65 countries in Africa, Asia, the Caribbean, Eastern Europe, Latin America and the Middle East.

This year's fellows, their titles, country of origin and where they are working with on campus or in the community are:

■ Elena Galinova, director of studies, Pharos School of Languages and Computing, Bulgaria, working with Daniel Walden, American Studies Program, and Michael Nayden, Department of Slavic and East European Languages.

■ Ibrahim Diallo, director of Private Primary Education, Ministry of Basic Education, Burkina Faso, working with William Opendhoff, superin-

tendent, State College Area School District.

■ Benjamin Eghan, principal program officer, Integrated Community Centres for Employable Skills, Ministry of Employment and Social Welfare, Ghana, working with Edwin Herr, associate dean for Graduate Programs, research and technology, College of Education, and Paul Mazza, president and owner, South Hills Business School.

■ Vorasone Dengkayaphichit, head, Computer Science Center, National Polytechnic Institute, Laos, working with Russell Vaught, director, Center for Academic Computing.

■ Abdel-Halim El Hilu, assistant accounting control officer, United Nations Relief & Works Agency, Gaza, the Palestine National Authority; working with Gary Schultz, senior vice president for finance and business and treasurer.

■ Alexander Razumov, chief of staff, President's Office, Government of Chuvashia, Russia, working with Peter Marshall, manager, State College Borough.

■ Ismael Mbaye, assistant director, Secondary Education, Ministry of National Education, Senegal, working with William Opendhoff, superintendent, State College Area School District.

■ Mohamed El Gasim, deputy executive director, Vice-Chancellor's Office, University of Khartoum, Sudan, working with Robert Secor, vice provost, and James Rameau, associate dean for Undergraduate Education.

■ Hisham Al-Khayat, head of Industrial Planning Directorate, State Planning Commission, Syria, working with Robert Bini, director, Centre Region Council of Governments.

■ K. M. Edem Adubra, vice principal, Tokoin High School, Lome, Togo, working with the State College Area High School.

■ Andrew Mangoro, headmaster, Mahusewa Secondary School, Zimbabwe, working with Peter Rubba, Department of Curriculum and Instruction.

Penn State supplies students with two daily newspapers

Hundreds of students at University Park are waking up this spring to find two daily newspapers delivered free of charge to their residence hall doors.

A pilot program involving the distribution of both *The New York Times* and the local *Centre Daily Times* was launched at the suggestion of University administrators.

Students have been hired to deliver the newspapers to almost 940 students occupying 550 rooms. The pilot program involves three co-ed residence halls on the University Park Campus.

President Graham B. Spanier introduced the students to the program with a letter welcoming them back to campus after the winter break.

"As president, I am committed to enhancing the intellectual and social development of each student. I am therefore pleased to announce that your residence hall has been selected for a pilot program in which you will receive selected newspapers in the hope that they will further your education," Spanier said in the letter.

Lou Heldman, publisher of the *Centre Daily Times*, agrees that newspaper readership can enhance student development.

"There is significant research on voting behavior and other aspects of citizenship that show a direct correlation between newspaper readership and community involvement," Heldman says. "The stronger connections that will be forged between students and this community by newspaper readership will help lead them to develop long-term ties with the communities they settle in and the newspapers serving those communities."



Following the semester-long experience, students will be surveyed to find out if the personal newspaper service proved useful and it is something they would like to see happen all the time at Penn State.

"One of the real benefits we expect from this program is the potential to encourage the formation of readership habits that students will carry with them throughout their lives," Spanier said.

"This is absolutely the best time for students to begin taking newspaper reading seriously, and to program such as this is the perfect way to introduce newspapers to them," Heldman said.

Tim Williams, executive director of the Pennsylv-

ania Newspaper Publishers Association based in Harrisburg, said the program has obvious ramifications for the newspaper industry by helping create "lifetime readers."

"Studies indicate that college students are not among our strongest readers. Normally, people begin regularly reading the paper at around the age of 35," Williams said. "If you begin developing students' interest in reading current events on a daily basis, you not only get them to be habitual readers but you also get a more well-rounded, knowledgeable person."

If the experiment works, Penn State officials would like to see the doorway delivery of newspapers for all 14,000 students who live on campus at University Park. Officials expect that only one newspaper would be selected for permanent delivery, with the choice centering on the advantages of a major national newspaper versus a local paper that might help students feel a greater sense of involvement with and responsibility for the surrounding community. Williams said it would be interesting to see which students become "regular" readers of newspapers.

In announcing the new program to the University's Board of Trustees recently, Spanier joked that "Both the newspapers involved, as you can imagine, hope this experiment is successful."

The cost to the University for the semester long program is approximately \$25,000. Students who take part in the survey following the experiment will have a chance to win \$100 in merchandise from the Penn State bookstore.

Most right-wing extremists live and work in mainstream America

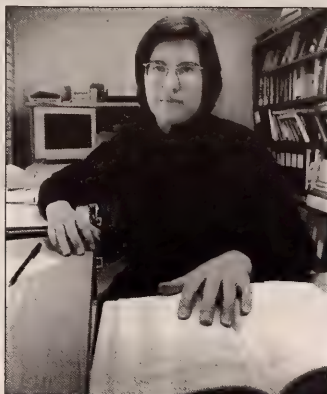
By PAUL A. BLAUM
Public Information

A profile of right-wing extremists shows that they are not an isolated group of people but are probably our neighbors.

"They tend to be male, white, outspoken in their convictions and at least as well-educated as the person next door. They are not confined to one socio-economic class and range from very poor to very rich. They do not cluster together in sub-cultural enclaves, and they apparently do not try to win over neighbors to their beliefs," said Howard Schuman, professor of sociology at the University of Michigan, and Maria Krysan, assistant professor of sociology at Penn State.

"In sum, except for age and gender differences, supporters of far right political candidates do not seem to differ greatly from the rest of the white population," the researchers said.

Krysan and Schuman drew their data from a survey of 157 contributors to the campaign of David Duke, former American Nazi and Ku Klux Klan activist who sought the governorship of Louisiana in 1991. The contributors



Maria Krysan, assistant professor of sociology, said her research shows that right-wing extremists may very well be our next door neighbors.

Photo: Greg Grieso

lived in three counties in the metropolitan Detroit area.

The researchers also surveyed neighbors of every Duke contributor, as well as a random sample of the general population in those three counties. The ques-

tionnaire was mailed to respondents.

"In most demographic characteristics, Duke contributors do not differ significantly from either their neighbors or the general white population," the researchers said. "One

exception is that contributors are some 10 years older than both their neighbors and the overall white population. Ordinarily, this would mean that they would be less-educated also, but that is not the case. There is no difference in education between any of the samples, which implies that Duke contributors are actually better educated than the average white person, once age is held constant."

The Duke supporters, like right groups as a whole, expressed a distinct lack of confidence in all branches of federal government, as well as opposition to specific policies such as affirmative action for minorities and women, gun control and the primary of environmental concerns over unfettered economic growth.

"However, we found no evidence that Duke contributors moved to their present neighborhoods to be near like-minded ideologies or have attempted to exert an ideological influence on their neighbors," Krysan said. "Our survey results indicate that Duke supporters live side-by-side or even surrounded by people who do not espouse their political positions."

In each area, De Walle is comparing five urban watersheds with five rural watersheds. Analysis of data for the Northeastern sector is complete.

"It is obvious that stream flow increases with an increase in precipitation, but in the Northeast, we find that with a higher population and the same precipitation, stream flow increases more," De Walle said.

Increases in stream flow boost the potential for flooding and the most developed areas are those that stand to lose the most in property and human life if flooding occurs.

higher when they were undersized compressive shorts.

"Compressive material enhances the body's awareness of where it is and what it is doing," said William J. Kraemer, professor of applied physiology, who headed the study.

Research



Hershey offers new cardiac bypass procedure

A different type of cardiac bypass surgery that is less painful, and offers patients faster recovery time and reduced trauma to the body, is now being offered at University Hospital at the Milton S. Hershey Medical Center.

The procedure, known as minimally invasive direct coronary artery bypass (MIDCAB) surgery, is performed through a small incision on the beating heart, eliminating the need for physicians to stop the heart and put patients on a heart-lung machine. The incision is one-third the size of incisions used in traditional bypass surgery and the hospital stay and recovery time for patients is considerably shorter.

Physician receives Cancer Society grant

Dr. Waldemar Debinski, director of tumor research and assistant professor of surgery and microbiology, has been awarded a \$383,000 three-year research grant from the American Cancer Society for the project "Immunotherapy for Cancer Treatment."

Debinski's laboratory is working on several innovative approaches to the treatment of solid tumors with emphasis on brain tumors. It is expected that some of these new strategies will be evaluated clinically at The Hershey Medical Center. Debinski's recent work also focuses on molecular targeting for cancer treatment.

Meals on Wheels clients at risk for iron deficiency

Rural, homebound, elderly people, particularly women, who participate in Meals on Wheels Programs, are at risk for iron deficiency, a study has shown.

John L. Beard, professor of nutrition and leader of the study, said the meals people received were adequately designed by a professional nutritionist. However, one home-delivered meal a day was not enough to provide 100 percent of the recipients' daily needs, and their other food intake did not compensate.

Beard worked with Rebecca E. Richards, research associate; Helen Smicklas-Wright, professor of nutrition; Valerie Bernardo, research associate; and Sue Kordish, who is affiliated with the Clearfield County Area Agency on Aging.

Urbanized watersheds are more sensitive to climate change

By ANDREA ELYSE MESSER
Public Information

A regional investigation of stream flow in urbanized areas could help planners, hydrologists and climate modelers predict future effects of increased precipitation and temperatures, according to a researcher.

"There have been a great many studies of stream flow, temperature and precipitation, but they have all been done on undeveloped watersheds that are minimally impacted by

humans," David De Walle, professor of forest hydrology, said. "No one, to our knowledge, has formally looked at urban watersheds in this way."

De Walle is trying to see how urbanization affects sensitivity of stream flow to climate change. Using population data from the U.S. Census Bureau, precipitation information from the National Weather Service and stream flow data from the U.S. Geological Survey, he is reviewing the past 50 years for four regions of the United States — the Northeast, Southeast, Northwest and Southwest.

sive garments, while not affecting the maximal force or power in the players' highest jumps, enabled them to maintain greater power output over a series of vertical jumps.

Among men participating in the study, power production was even

Volleyballers jump higher when wearing compressive shorts

In an explosive effort, volleyballers in compressive shorts jump higher in the repetitive jumps characteristic of the game situation than opponents wearing standard loose attire.

A study of college volleyball players demonstrated that the compressive

Feb. 9 is 4-H Day with the Lady Lions

Nearly 2,300 young people and their families from 34 counties will cheer the Penn State women's basketball team Sunday, Feb. 9, at The Bryce Jordan Center during 4-H Day with the Lady Lions. The event is sponsored by the Pennsylvania Association of Extension 4-H Agents and the Department of Intercollegiate Athletics.

Administered by Penn State Cooperative Extension, 4-H is the University's largest youth outreach program, involving more than 130,000 young Pennsylvanians — both urban and rural — in informal educational programs in such areas as plant and animal science, engineering, life sciences, citizenship and leadership skills development.

From 12:30 p.m. until the 2 p.m. game with Indiana University, the College of Agricultural Sciences' Office for Resident Education will coordinate a Penn State Information Fair between gates A and B on the concourse level of the Jordan Center. Representatives from each academic college, undergraduate admissions and the financial aid office will be on hand to help participants learn more about post-secondary education choices. Short bus tours of campus also will be offered on a limited basis. Preregistered 4-H members and their families will be admitted free to the game.

"Many people, even 4-H'ers and their families, don't make the connection between 4-H and Penn State," William Hosler, the event's coordinator and Huntingdon County youth development extension agent, said. "By bringing them to campus, we hope to broaden their awareness of 4-H and Penn State."

For more information, contact Hosler in the Huntingdon County office of Penn State Cooperative Extension at (814) 643-1660 or **Mari-ann Fivick** in the college's Office for Resident Education at (814) 865-7521.

For the record

A "News in Brief" item from the Jan. 30 issue on a retiree group that meets Mondays at the Autopoint requires clarification. There are two retiree groups — one open to former faculty members and their spouses and the other open to all former employees of the University. The group open to all employees meets every other month at The Penn State Scenic Center. For more information on this group, contact **John Ziegler** at 867-7931. For information on the faculty retiree group, contact **Frank Mallette** at 237-2021.



When it rains it pours....

Harold Doll from the Office of Physical Plant makes sure the surface in front of Recreation Building on the University Park Campus is safe for pedestrians. In an average winter season, OPP workers spread about 250 tons of salt and anti-skid material on sidewalks on campus and an additional 250 tons of the same on roadways.

Photo: Greg Grieco

Submissions sought for technology symposium on teaching

Penn State faculty are encouraged to submit a presentation proposal for the fifth annual Teaching and Learning with Technology Symposium to be held from 9 a.m. to 4:30 p.m. Saturday, April 5, in the Joab L. Thomas Building at University Park. In addition to faculty submissions, proposals from graduate students and undergraduates who wish to share exemplary course projects that involve information technology are welcome. The symposium, sponsored by Education Technology Services of the Center for Academic Computing, is a forum for sharing ideas and experience in using technology for University-level instruction.

Proposals are due by Feb. 21 on topics such as:

- Active and Collaborative learning environments

- Effective use of video, graphic, VR, morph and sound resources for instruction

- Increasing course-based communication through e-mail, the World Wide Web and other Internet applications
- Innovative models for delivery at a distance

- Any use of technology to enhance teaching and learning.
- All presenters should plan to demonstrate their instructional methods. Each session will be 60 minutes long.

To request a printed presentation proposal, please contact **Karen Peters** at kmpl38@email.psu.edu or call (814) 863-7763 or (814) 863-5770. Proposals also may be submitted via the Web at: <http://ets.cac.psu.edu/seminars/TLT/rfp.html>.



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Proposed state budget falls short of University needs

By LISA M. ROSELLINI
Public Information

Despite Gov. Tom Ridge's proposed 2 percent increase in state funding for Pennsylvania's public universities this year, the money just doesn't cover the financial obligations Penn State faces. In fact, for Penn State alone, there's an \$18.5 million gap between what is being offered and what is needed.

On Feb. 4, the governor unveiled his proposed \$16.9 billion spending plan for 1997-98 for the state that boosts appropriations for Pennsylvania's public universities by \$22.9 million. Penn State's share of that increase is

\$5.68 million. This increase brings Penn State's total 1997-98 proposed state appropriation to about \$286.7 million, although University administrators were seeking a \$24.2 million increase this year, or about \$305 million.

"We applaud, that for the first time in several years, the executive budget proposal provides for an increase for Penn State's base budget," John A. Brighton, executive vice president and provost, said. "But the governor's proposal will not cover the financial obligations we face this year in mandated retirement benefits, regulatory compliance and basic operating costs. Nor will it allow us

See "State budget on page 3

Court upholds Penn State's tax status

Dauphin County Court of Common Pleas ruled Monday in favor of Penn State in a case that had questioned the tax-exempt status of the University and The Milton S. Hershey Medical Center.

"We are gratified that the Dauphin County Court today upheld Penn State's tax-exempt status as an instrumentality of the Commonwealth," said Gary C. Schultz, senior vice president for finance and business/treasurer. "Penn State and the Commonwealth have a long history of working together in service to the people of Pennsylvania. It is heartening that the court recog-

nizes that a state-supported institution like Penn State should not be subject to local taxation."

At issue was the tax-exempt status of The Medical Center properties in Derry Township, including the University's College of Medicine, various research facilities and the University hospitals. The court recognized that these properties are an integral part of the University, and they are used in furthering the educational and research missions of Penn State.

The University's tax-exempt status also

See "Tax status" on page 2



Tender loving care

Gary Kilian, (right) professor of reproductive physiology, takes blood samples from a doe at the Deer Research Center near the University Park campus. He is checking to see if this doe is pregnant — as are approximately 90 percent of the female deer at the center. Undergraduate Donny Wagner, a wildlife/fisheries major, assists.

Photo: Greg Grieco

Matters of the heart

Valentine's Day: Candy and flowers say it best

By ANNEMARIE MOUNTZ
Public Information

Tomorrow is Valentine's Day, so you're probably either hoping for some flowers and candy, or rushing out to buy some for someone else. But did you ever stop to think

why we give chocolate and roses on this romantic holiday?

"We usually give rare, unusual, luxury items to people when we want to communicate our admiration," Gregory Ziegler, associate professor of food science, said. "When someone gives chocolate for Valentine's Day —

especially expensive chocolate — much like a diamond or a dozen roses, what that person is saying is that 'I have an excess of resources and I can afford to spend them on these unnecessary, luxury items.'"

In addition, there's a widely circulated belief that chocolate can potenti-

ate amorous feelings, said Ziegler.

"That idea goes back at least as far as the Aztecs in Mesoamerica. It's been said that the emperor Motecuhzoma II would drink chocolate before entering his harem, so it has a long history as an aphrodisiac," he said.

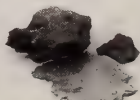
See "Valentine" on page 2

Inside



Radio goes high tech

President Spanier's monthly radio show on WPSU-FM takes a turn onto the information superhighway during its hourlong program on technology. Some listeners will be able to see, hear and e-mail questions to the show. For the big picture, turn to page 8.



Out of this world

Researchers may have found the perfect place to discover fossil meteorites, now embedded in sedimentary rock. For more information, turn to page 15 of today's Intercom.

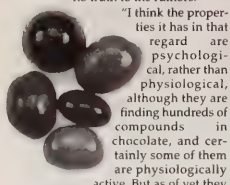
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Valentine's Day

continued from page 1

Unfortunately, there appears to be no truth to the rumors.



"I think the properties it has in that regard are psychological, rather than physiological, although they are finding hundreds of compounds in chocolate, and certainly some of them are physiologically active. But as of yet they have not been able to ascribe either aphrodisiac properties or even addictive properties to any one of those chemicals, other than a small amount of caffeine," he said.

Ziegler, whose research includes both the history of chocolate and its physical properties, said we crave chocolate because humans have a penchant for sweets, and, frankly, because it tastes so good. Even if you're counting calories, one or two pieces of the treat won't do much harm.

"A Hershey's Kiss has only 25 calories," he said.

As much as we love chocolate, manufacturers have predicted a 10 percent drop in candy sales this Valentine's Day, however. This year, the holiday falls on the first Friday of Lent, the 40 weekdays from Ash Wednesday to Easter observed by the Roman Catholic, Eastern and some Protestant churches as a period of penitence and fasting.

"Anyone observing Lent will have to switch to roses," Ziegler said.

And what about those roses? A dozen long stem red American Beauties sends an unmistakably romantic message. And the average consumer will plunk down between \$50 and \$60 to have them delivered on Valentine's Day. But flowers that start to droop and die soon after they're given can put a damper on things.

Kathleen Brown, associate professor of postharvest physiology who has studied ways to genetically alter roses to make them less susceptible to disease, has some tips to help your roses last as long as possible.

Take that preservative packet that

came with your flowers and mix it in with tepid water according to the directions. Before putting your flowers into the solution, recut the stems about an inch from the bottom with a sharp knife, and remove all leaves that would be under water.

"If you leave them on, they'll decay in the water and cause bacteria to grow," said Brown, who is an expert on roses and storage of cut flowers. "That could make it harder for the flowers to absorb the solution, and they'll die sooner."

Some people recommend cutting the flower stems under water. "If you're not going to put the flowers immediately into their vase, that's a good idea. But it's better to get your flowers into the solution as soon as possible," Brown said.

If you don't have a packet of preservative, don't use sugar in its place because plain sugar could cause bacteria to grow.

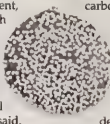
"Instead, use a half-and-half solution with lemon and Sprite or another lemon-lime soda," Brown said. "Don't use diet soda because you need the combination of the acids and the sugar in the soda. Mix the soda with an equal amount of water, and then let it sit to get some of the carbonation out."

Although the television may be the best place to put your flowers from a decorator's point of view, the heat given off by the TV could spell an early demise for your flowers.

"Keep flowers in a cool place to make them last longer," Brown said. "If their heads seem floppy, put the flowers in a warm solution and then put them in a cold place for a few hours to help them absorb the solution. You could even put them on the porch for an hour or two if it's not too cold out."

If you follow these tips, your flowers should last seven to 10 days—maybe even longer, depending on the quality.

If you're the one buying the roses, pick flowers that look fresh, with the petals separated a bit at the tips. In



For more information

For more information about chocolate, visit the Cocoa Chocolate and Confectionery Research Group Web site at <http://www.cde.psu.edu/ccr/ry/>. If that doesn't satisfy your appetite, visit the International Symposium on Confectionery Science Web site at <http://www.cde.psu.edu/C&I/CocoaResearch/>.

What does it mean?

Different colored roses mean different things to different people. A sampling of Web sites has turned up these fairly common rose colors and their meanings:

- Red: true love or passion
- White: innocence, purity
- Yellow: friendship; can also mean jealousy
- Light pink: grace, gladness, joy or simplicity in love
- Dark pink: thankfulness

addition, you may want to buy domestic roses instead of imported varieties.

"Domestic roses last longer than imported as a rule," Brown said. "They don't have to travel as far and can be picked much closer to delivery time, so they're fresher. Imported roses are less expensive because they're grown in warmer climates and can be produced more cheaply. However, they have to travel a long way to get here and their quality is not usually as high as that of roses grown domestically."

Keeping all of this in mind, choose your gifts carefully. And remember, while neither chocolate nor roses has a proven effect on amorous feelings, neither one hurts the cause.

Tax status

continued from page 1

has been questioned in Centre County, and the University has responded with in-lieu-of tax agreements with local taxing bodies. The University remains committed to those settlements, which have been recently revised and are currently undergoing review.

"We hope that this decision brings to an end attempts to impose taxes on the University. This decision is significant in recognizing the University's status as an instrumentality of the Commonwealth and affirming that University property is immune from taxation," said Schultz.

In Centre County, the University has entered into in-lieu-of tax agreements with local taxing bodies and has proposed that the agreements be revised this month be binding on all parties for 20 years. Centre County, the State College Area School District, the Borough of State College and Patton, Harris and Ferguson townships are considering the revised agreement. The University reached a separate in-lieu-of taxes agreement with College Township earlier this year.

Obituaries

B. June Emanuelson, campus registrar for the Penn State New Kensington campus, from Dec. 9, 1968, until her retirement July 1, 1993; died Jan. 9, 1996. She was 63.

Martha G. Files, clerk, University Libraries, from Dec. 3, 1973, until her retirement April 1, 1994; died Jan. 1 at the age of 65.

Marva J. Hunt, nutrition education adviser in the College of Agricultural Sciences, from Feb. 3, 1969, until her retirement July 1, 1990; died Jan. 16. She was 58.

Oscar W. Jones, resident assistant/housekeeping supervisor in Housing and Food Services, from March 1, 1973, until his retirement May 31, 1986; died Jan. 24. He was 77.

Helen Rice, janitorial worker, Office of Physical Plant, from Oct. 19, 1981, until her retirement Oct. 22, 1991; died Jan. 19. She was 70.

Gilbert J. Rider, supervisor of auxiliary equipment in Management Services, from July 1, 1949, until his retirement Jan. 3, 1976; died Jan. 20 at the age of 81.

Victor L. Waite, plumber-fitter with the Office of Physical Plant, from Oct. 28, 1969, until his retirement Jan. 5, 1995; died Jan. 7. He was 61.

Paul Wegman, utility worker at The Hershey Medical Center, from Sept. 28, 1970, until his retirement Aug. 30, 1986; died Dec. 25, 1996 at the age of 73.

How America loves chocolate...

- On average, each American ate 11.5 pounds of chocolate in 1995. That's over 3 billion pounds total.
- The retail chocolate industry in the U.S. is worth \$13 billion per year.
- Americans spend \$665 million each Valentine's Day on candy, making it the fourth biggest holiday of the year for confectionery purchases after Halloween, Christmas and Easter.

- Chocolate manufacturers use 40 percent of the world's almonds, 20 percent of the world's peanuts and eight percent of the world's sugar. Members of the Chocolate Manufacturers Association use about 3.5 million pounds of whole milk each day to make milk chocolate.



Source: *Chocolate Facts, Folklore and Fantasies*, Linda K. Fuller, Ph.D., 1994.

State budget

continued from page 1

to address critical needs to further our missions of teaching, research and outreach."

Brighton also said the shortfall will further widen the affordability gap that students face in paying for a college degree and could halt the University's plans for hiring more faculty. Although a 2.9 percent increase in

tuition is already planned for next year, the provost could not say if a larger tuition increase would now be considered. Currently, the state's appropriation contributes 16.8 percent to Penn State's total operating budget.

In the coming weeks, University officials will continue working with legislators as the state Senate and House of Representatives holds its own budget hearings on the governor's proposed fiscal blueprint. Last year, Ridge recommended only increasing Penn State's appropriation by \$762,000 over the previous year to reach \$277.4 million. After budget hearings, however, the Legislature agreed to up that amount to nearly \$281 million. The Senate holds its budget hearings at 11 a.m. Tuesday, Feb. 25; the House will hold its hearings at 3 p.m. Monday, March 3.

"Underfunding continues to be one of the University's most serious problems as we continue to operate with fewer dollars per student than our peer institutions," Brighton said. "Within Pennsylvania, Penn State receives a lower educational and general appropriation per student than any other public college or university."

Brighton was referring to the latest data available which shows that in 1995-96, Temple received from the state \$5,630 for each of its full-time students; the University of Pittsburgh received \$4,750; the 14 state-owned universities received an average of \$4,580, while Penn State received \$3,350. The 14 state-owned schools include Bloomsburg, California, Cheyney, Clatsop, East Stroudsburg, Edinboro, Indiana, Kutztown, Lock Haven, Mansfield, Millersville, Shippensburg, Slippery Rock and West Chester.

According to figures provided by the University's budget office, it would take an increase of approximately \$94 million to bring Penn State's funding up to the average of Pennsylvania's other public universities.

When compared with the average of the Big 10 public universities, Penn State receives nearly \$88 million less in state appropriations, while serving nearly 18,000 more students.

Early projections of a possible surplus in the state coffers led Brighton to hope that there will be room to adjust the increase to include additional support for the University's basic educational mission.

"Underfunding continues to be one of the University's most serious problems."

— John A. Brighton
provost

Professor recognized as biochemical pioneer

For pioneering the modern field of biochemical engineering, which is greatly influencing the traditional chemical engineering field, **Arthur E. Humphrey**, professor of chemical engineering, was recently awarded the 1997 John Fritz Medal. Presented at a meeting of the American Institute of Chemical Engineers, the award is given to one person annually and recognizes notable scientific or industrial achievement. Previous recipients of the Fritz Medal include Alexander Graham Bell, Thomas Alva Edison, Orville Wright and Herbert Hoover.

In his more than 43-year career, Humphrey's research has concentrated on biotechnology and the design, monitoring, and control of bioprocesses. His work has resulted in four patents, more than 275 research papers and three



ARTHUR E. HUMPHREY

books. The first textbook in bioengineering was co-authored by Humphrey. During the formative years of biotechnology, Humphrey provided an important "information bridge" leading the collaborative effort to explore and apply the new technologies that became the basic tenets of biochemical engineering. His work has shown clearly how chemical engineering principles can be applied to the production of pharmaceuticals, particularly process scale up. Humphrey developed and patented a method for computer control of fermentation systems, which is now used by virtually all biotechnology firms to monitor and control bioreactors.

He is a member of the National Academy of Engineering and a Fellow and past president of the American Institute of Chemical Engineers. He has received numerous honors from that institution including the Professional Progress Award; the AIChE Founders Award for outstanding contributions to chemical engineering literature; and the F.J. & Dorothy Van Antwerp Award for service to the institute. He has received the James M. Van Lanen Distinguished Service Award and the Marvin Johnson Award from the American Chemical Society and the Distinguished Service Medal from the University of Pennsylvania.

Astronomy professor earns national award for discoveries

Alexander Wolszczan, distinguished professor of astronomy and astrophysics, has received the 1996 Casimir Funk Natural Sciences Award from the Polish Institute of Arts and Sciences of America. The institute annually honors a distinguished natural scientist of Polish origin, living in North America, who has made an outstanding scientific contribution.

In 1992, Wolszczan became the first person to discover planets outside our solar system when he used the 1,000-foot Arecibo radiotelescope to detect three planets orbiting a rapidly spinning neutron star. He currently is one of the leaders in the effort to discover extrasolar planets.

Wolszczan also has received the Beatrice M. Tinsley award from the American Astronomical Society in 1996; the Penn State Faculty Scholar Medal for Outstanding Achievement in 1994; the Popular Science Grand Award for "Best of What's New" in 1994; the Annual Award of the Foundation presented by the Kosciuszko Foundation in 1994; and the Alfred Jurdzyski Foundation award in 1993.

Wolszczan received a master's degree in astronomy in 1969 and a doctoral degree in physics in 1975, both from Nicholas Copernicus University in Poland. He was a visiting professor at Princeton University before joining the Penn State faculty as professor of astronomy and astrophysics in the fall of 1992.

Geosciences professor lauded for contributions to climate research

Richard B. Alley, professor of geosciences, has received the Robert E. Horton Award of the American Geophysical Union in recognition of his outstanding contributions to the study of ice and its relationships with climatic change. The award citation highlights Alley's service to the science community engaged in ice research and the high quality of his research contributions.



ALEXANDER WOLSZCZAN

Alley, a member of the faculty since 1988, established Penn State's ice study group and developed laboratories and facilities for studying ice cores received from research drill sites in Greenland and Antarctica. His research group has pioneered advances in ice core analysis that are transforming it from a qualitative to a quantitative science.

Faculty honored for promising career starts

Five University faculty members have been honored with 1996 National Science Foundation Faculty Early Career Development (CAREER) grants.

The recipients are **Thomas E. Boothby**, assistant professor of architectural engineering, for "Assessment, Maintenance, Repair and Rehabilitation of Historic Structures"; **David A. Edwards**, associate professor of chemical engineering, for "Osmotically-Driven Intracellular Transport"; **David J. Miller**, assistant professor of electrical engineering, for "Supervised Learning by Statistical Physics"; **Suzanne Mohney**, assistant professor of metals science, for "Native Oxides on the III-V Nitrides and Chemical Cleaning of the Semiconductor Surfaces"; and **Maria Womack**, assistant professor of physics, Penn State Erie, The Behrend College, for "Carbon Monoxide in Comets."

NSF established the awards to help scientists and engineers develop simultaneously their contributions to research and education early in their careers. CAREER funds are awarded to junior-level faculty at colleges and universities. These four- to five-year awards range from \$200,000 to \$500,000.

NSF awarded 346 CAREER awards nationwide in 1996 totaling \$40 million in new grants. The awardees were selected from 1,865 applicants.

LECTURES

Lecturer looks at our past through DNA

The fourth lecture in the spring semester 1997 Penn State Lectures on the Frontiers of Science series is "Human History as Seen Through Genetics: Ancient and Modern DNA Sequences Reveal New Aspects of Our History." The talk at 11 a.m. will be given Saturday, Feb. 15, by **Svante Paabo**, professor of biology at the University of Munich in Germany, in 101 Thomas Building on the University Park campus. Paabo pioneered the study of DNA from archaeological remains of human and extinct animals. During his lecture, he will discuss what modern genetics tell us about the origin of our species



SVANTE PAABO



and more recent history, such as the invention and spread of agriculture in the Middle East and Europe.

These lectures are designed for the enjoyment and education of Pennsylvania residents, and are sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on Shortlidge Road. For more information, contact the college at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.

Harrisburg institute to help academic professionals

The Pennsylvania Black Conference on Higher Education (PBCOHE) is sponsoring a two-day Institute for Educational Management and Leadership that will give academic professionals of color an opportunity to develop their leadership abilities and administrative skills.

The institute will be held Feb. 25-26 in Harrisburg and will cover a range of skills, including identifying and analyzing changes affecting higher education, becoming familiar with the budget process in higher education, and examining various leadership styles and their effectiveness.

The institute will include a keynote address on leadership in higher education by **John A. Brighton**, executive

vice president and provost at Penn State, and a session on technology and higher education research by **James H. Ryan**, vice president for Outreach and Cooperative Extension. Other sessions will cover the budgetary process, communication in higher education, management and academic protocols, leadership and management styles, development and use of research, and job seeking and interviewing skills.

PBCOHE, the sponsor of the institute, is a professional association whose purpose is to ensure that African Americans and other people of color have access to higher education in Pennsylvania. For more information, contact **Grace Hampton**, chair of the institute's planning committee, at (814) 863-5408.

Newspaper executive leads talk on Black History Month

Charles B. Fancher, vice president for communications and public affairs of Philadelphia Newspapers Inc. (PNI) — the publisher of *The Philadelphia Inquirer* and the *Philadelphia Daily News*, will lead a discussion on "Who Needs Black History Month: A Media Executive's Perspective," at 5 p.m. Tuesday, Feb. 18, in Carnegie Cinema on the University Park campus.

The event, sponsored by a variety of organizations and hosted by the College of Communication, is in celebration of Black History Month. After the discussion, a special performance of the United Solo Ensemble will be presented and a buffet of ethnic food prepared by College of Communications faculty and students will be served.

Fancher, who is responsible for internal and external communications, government relations, community relations and corporate giving for PNI, worked as a reporter and later as an editor at *The Inquirer*. He moved on to spend five years at the *Detroit Free*



CHARLES B. FANCHER

Press, where he was promoted through several positions, ranging from assistant to the executive editor to editor of the *Free Press*' Sunday magazine. During his time there, he was the recipient of a National Endowment for the Humanities Fellowship for Journalists, and took time off for study at the University of Michigan from 1981-82. He returned to Philadelphia in 1989 to become director of communications for PNI, and was promoted to his current position in 1990.

Today, despite his busy schedule, Fancher is active in civic affairs. He is secretary of the board of directors of the Community College of Philadelphia Foundation, vice chairman of the Communications Academy Board of Governors of the Philadelphia High School Academies, former chairman of the Board of Freedom Theatre, and a member of the Board of the Corporate Alliance for Drug Education, in addition to other civic and cultural committees.

Olympic diver Louganis to speak at Altoona on Feb. 27

Greg Louganis, Olympic champion and AIDS activist, will discuss his life when he visits Penn State Altoona College on Tuesday, Feb. 27. The talk will be held at 7:30 p.m. in the Community Arts Center. An autograph signing session will follow in the Titelman Studio immediately after his presentation. His talk is part of the college's Distinguished Speaker Series.

Louganis, whose autobiography *Breaking the Surface* is one of the best-selling books ever written by an athlete, is open concerning his sexuality, his difficulties in the past, and his hope for the future, despite having AIDS. The diver has won the World Championship five times and was the first man to win double gold medals for diving in two consecutive Olympics. Since the 1988 Olympics, Greg has been pursuing his life-long dream of an acting career, and a movie surrounding his life, "Breaking the Surface: The Greg Louganis Story," will air on March 19 on the USA network.

The Distinguished Speaker Series is provided as a student and community service by the Division of Student Affairs at Penn State Altoona. The series is partially sponsored by the Margery Wolf Kuhn Fund, the John and Ann Wolf Family Speaker Series Fund, the Edward B. Felty Endowment for the All Faiths Chapel, and the Student Activities Fee. Tickets for this free lecture may be obtained at the Penn State Altoona Bookstore, (814) 949-5121.

Maternal employment, child development link probed

Kathleen Mullan Harris, associate professor of sociology and Fellow of the Carolina Population Center, University of North Carolina, Chapel Hill, will give a seminar titled "The Consequences of Maternal Employment and Welfare Receipt for Children in Poor Families" at 11:45 a.m. Tuesday, Feb. 18, in 406 Oswald Tower on the University Park campus.

Harris' research examines the interrelationship

among mother's work, poverty and child well-being in the United States. She and her colleagues argue that decisions regarding maternal employment and welfare receipt involve trade-offs between mother's time and money, and that these trade-offs have consequences for the well-being of children and children's development.

The findings from this study have important implications for understanding the consequences

of recent welfare reform which calls for more stringent work obligations of welfare mothers, without understanding the consequences for children.

The seminar is co-sponsored by the Population Research Institute and the Department of Sociology. Please contact **Laura Zimmerman** by e-mail at lzimmer@pop.psu.edu or by phone at (814) 865-0486 for more information.

More Lectures

Issues affecting New Zealand are topic of Feb. 17 lecture

Barry Gustafson, professor of political studies at the University of Auckland and a visiting Fulbright professor at Georgetown University, will give a seminar titled "Race, Land and Politics in New Zealand: Compromise or Confrontation?" at 3:30 p.m. Monday, Feb. 17, in 102 Weaver Building on the University Park campus.

Gustafson, a widely published author on topics affecting New Zealand, will discuss the political and societal implications, not only of Maori-European relations relating to land and other controversies, but of resparked national debate over South Pacific Islander and Asian migrants.

Gustafson has written key books on New Zealand's political parties and on political biography. He also has been involved with parties at the organizational level, and has been in frequent demand as commentator on a wide range of New Zealand issues.

The lecture, which is open to the public, is being sponsored by the Australia-New Zealand Studies Center. For more information, contact **Pat Corbett** (e-mail: pac@psu.edu; phone: (814) 865-1603; fax: (814) 865-3356).

Mont Alto lecture series will focus on change and challenge

Penn State Mont Alto campus announces its spring lecture series, "Change and Challenge: Mont Alto and Beyond." All lectures are free to the public.

—Wednesday, Feb. 19 at 1:30 p.m., **Mary Jane Henderson**, nurse at Applewood Women's Care Center in Carlisle, speaks on "Birth: A Lifetime Experience," in the auditorium, General Studies Building.

—Tuesday, Feb. 25 at 2:30 p.m., **Joan Applegate**, professor emerita of music at Shippensburg University, lectures on "Women, Music and Change," auditorium, General Studies Building.

—Wednesday, March 5 at 1:30 p.m., **Claudia Limbert**, director of academic affairs, Penn State DuBois campus, addresses the campus community on the topic of "Lifetime Learners." Multipurpose Room, Multipurpose Activity Center.

Congressman to speak, answer questions at Shenango forum

Penn State Shenango campus will hold a forum at noon Wednesday, Feb. 19, in the campus auditorium with Congressman **James A. Traficant Jr.** as guest speaker. Rep. Traficant will speak and then turn the forum over to the audience for a question-and-answer period.

The campus's student organization, Adults Seeking Knowledge (ASK), will host the event. The group asked Traficant to speak to hear his views and ideas on how individuals and families can work within the system and with the elected administration.

Traficant is a native of Youngstown, Ohio. Before being elected to Congress in 1985, he was the sheriff of Mahoning County for four years from 1981-85, and director of the Mahoning County Drug Program from 1971-81. Traficant last spoke at the Shenango campus in the fall of 1993.

The forum is free to the public. For more information contact **Diana Rankin** at (412) 983-5832 or the University Relations Office at (412) 983-5812.

Wharton School professor to explain how you can make every value count

Thomas Donaldson, holder of the Mark O. Winkelman endowed professorship at the University of Pennsylvania's Wharton School, will deliver the 1997 G. Albert Shoemaker Lecture in Business Ethics at the Nittany Lion Inn at University Park on April 8.

Titled "Making Every Value Count," Donaldson's talk is the ninth in a series made possible in 1986 through the generosity of **G. Albert Shoemaker**, the late coal industry executive, and his wife, **Mercedes**. The Shoemaker Lecture is a program of The Smell College of Business Administration.

Donaldson was the John F. Connelly professor of business ethics at Georgetown University for six years before he joined the faculty at Wharton.



THOMAS DONALDSON

While at Georgetown, he was voted Distinguished Professor of the Year by MBA students and Distinguished Researcher of the Year by fellow members of the business school faculty.

Donaldson has written broadly in the area of business values and professional ethics. Books that he has either written or edited include: *Ethics in International Business*, *Ethical Issues in Business* (fifth edition), *Issues in Moral Philosophy*, *Case Studies in Business Ethics* (fourth edition), and *Corporations and Morality*. He is a

senior fellow of the Olsson Center for Ethics at the University of Virginia's Darden School, and he is a founding member and past president of the Society for Business Ethics.

Explore education in the new millennium Feb. 26-March 1

The 27th annual conference of the Pennsylvania Black Conference on Higher Education (PBCOHE), "Standing on the Shoulders of Others: Education in the New Millennium" will be held Feb. 26-March 1 in Harrisburg.

The purpose of the PBCOHE conference is to emphasize that higher education is an essential tool for professional development.

"We know that in 1997, higher education is still unattainable for many African American youth in the Commonwealth of Pennsylvania," said PBCOHE President **Andre P. Hart**, continuing education representative at Penn State Abington College. "Additionally, we know that faculty and staff hiring of African Americans, and promotion and tenure, are still not at acceptable levels in the Commonwealth. We seek to right historical wrongs that continue and gain greater access in the state."

PBCOHE is a professional association whose purpose is to ensure that African Americans and other people of color have access to higher education in Pennsylvania. The association's incoming president is **William Asbury**, Penn State's vice president for student affairs.

The conference's education/developmental sessions, for professionals and students, will focus on the ABCs of an undergraduate education; attaining a master's degree; the why's and how's of the terminal degree; and professional development. The conference also features a general assembly meeting, regional meetings, workshops, in-service training sessions, program planning activities, student scholarship presentations, an awards banquet, and social and cultural events.

Learn how to create high-performance teams in your organization on Feb. 26

Gary Latham, secretary of state professor of organizational effectiveness at the University of Toronto, will present the 1997 Lydia S. and Samuel S. Dubin Lecture at University Park. He will discuss "Creating High-Performance Teams" at 4 p.m. Wednesday, Feb. 26, in Presidential Room 3 at The Penn State Scanticon. The lecture is free to the public and will be followed by an informal reception.

Before assuming his endowed chair at the University of Toronto, Latham was the Ford Motor Research Professor and chairman of the Department of Management and Organization in the Business School at the University of Washington. He is a Fellow of the American and Canadian Psychological Associations and consults widely in industry. Some of his long-term clients include Scott Paper, Seattle First Bank and Weyerhaeuser Co. He also is the author of several books on performance

appraisal, goal-setting and task performance, and developing and training human resources.

This lectureship was established by the late Samuel S. Dubin of Continuing and Distance Education in 1992. He was internationally renowned for his expertise in the field of retraining. A psychologist, consultant and lecturer on industrial and organizational psychology, retraining and continuing education research topics, Dubin retired from Penn State in 1979 as professor emeritus of psychology. He spent 18 years at the University as a teacher of industrial organizational psychology and project director in planning studies.

The 1997 Dubin Lecture will be presented in conjunction with the annual C&DE Systemwide Conference, a professional development program for C&DE faculty and staff members.

The ARTS

AT PENN STATE



At the Jordan Center

John Michael Montgomery will perform at The Bryce Jordan Center on the University Park campus at 8 p.m. Feb. 22. For information on this and other events at the Jordan Center, check the Web at <http://www.bjc.psu.edu/>

Pennsylvania Dance Theatre

Pennsylvania Dance Theatre will open its home mainstage concert performance, "Winter Concert of World Premieres," at 8 p.m. Friday, Feb. 14 and Saturday, Feb. 15, at the Pavilion Theatre on the University Park campus.

Now celebrating its 18th season and its sixth under the direction of Ann Van Kuren, Pennsylvania Dance Theatre has become known for its diverse artistic forays. This is its first concert in the Pavilion, and two pieces created for the company this year will see their first performances in this program.

Tickets are \$12 from the Eisenhower Ticket Center or by calling (814) 863-0255. Seating is limited. Students and seniors may purchase tickets at half price one-half hour before the performance.

Trumpet recital

John Daniel, assistant professor of music, will present a free recital of 20th-century trumpet music on Monday, Feb. 17, at 8 p.m. in the College of Arts and Architecture's School of Music Recital Hall. Assisting him will be pianist Timothy Shafer, associate professor of music.

Music recital

Tim Hurtz will present a recital of music for oboe with a variety of other instruments at 8:30 p.m. Tuesday, Feb. 18, in the Helen Eakin Eisenhower Chapel on the University Park campus.

Several of the College of Arts and Architecture's School of Music faculty members will collaborate with Hurtz in works by Bach, Ginastera, Jacobs,

Wilder and the premiere of "Artica" for oboe and electric guitar by Paul Barsom, instructor of music in the School of Music. In addition, Hurtz will perform a jazz ballad. Joining him on the 12-string guitar will be Michael Dennis.

Faculty joining Hurtz in the recital are Eleanor Duncan Armstrong, flute; Dan Armstrong, percussion; Susan Bowdman, soprano; and June Miller, harpsichord.

The concert is free to the public.

Piano recital

Douglas Fisk will present a free piano recital on Tuesday, Feb. 18, at 8 p.m. in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus. Fisk is a student of Timothy Shafer, associate professor of music at Penn State.

Bach's lunch

The Penn State Clarinet Ensemble, directed by Smith Toulson, professor of music, will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, Feb. 20, in the Helen Eakin Eisenhower Chapel on the University Park campus.

The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

The Clarinet Ensemble consists of 11 undergraduate clarinet majors.

Audience members may take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

International Festival

The International Festival XXIII at University Park, a celebration of the many cultures represented at Penn State, begins Saturday, Feb. 15, with a 6 p.m. dinner at Johnston-Findlay Common in East Halls and culminates with an International Fair on Sunday, Feb. 23. Scheduled events for the festival include:

■ Saturday, Feb. 15: "Touch of Africa," presented by the African Student Association. Begins with 6 p.m. dinner at Johnston-Findlay Commons in East Halls. Tickets for non-students are \$10 at the Paul Robeson Cultural Center before the event or \$12 at the door.

■ Wednesday, Feb. 19: Italian Dance Group (I Guiliardi di Piazza), 7 p.m., Paul Robeson Cultural Center. Sponsored by the International Student Council. The event is free.

■ Friday, Feb. 21: International Coffee House — free performances by international student clubs and the Penn State International Dancers, 7 p.m., HUB Ballroom.

■ Saturday, Feb. 22: Barrio Fiesta to be presented by the Penn State Filipino Association in 102 Kern beginning at 5 p.m., with dinner followed by cultural performances. Tickets are \$5. Call Ed Tapan at (814) 867-7166 or Bernie Liang at (814) 234-6267.



BRYCE JORDAN CENTER

Upcoming events

■ Feb. 20: Harlem Globetrotters, 7:30 p.m. Tickets: \$13; \$20 for V.I.P. seats; \$70 for Magic Circle seats, including a Reebok Globetrotters jersey; \$2 discount for youth and senior citizens; \$3.50 discount for Penn State faculty and staff with I.D. and groups of 15 or more; Penn State students half price with ID. Penn State discounts redeemable only at the Bryce Jordan Ticket Center. Limit two tickets per I.D. Discounts apply to \$13 tickets only. Tickets on sale now.

■ Feb. 22: John Michael Montgomery, with special guest Ricochet, 8 p.m. Tickets: \$25, \$22.50, \$20 for reserved seating. Penn State students get a \$5 discount on \$22.50 and \$20 tickets, redeemable only at the Bryce Jordan Ticket Center. Limit two tickets per I.D. Tickets on sale now.

■ March 2: Metallica with special guest Corrosion of Conformity, 7 p.m. Tickets: \$35.50, \$25.50 for reserved seating. Tickets on sale now.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu>

■ Sunday, Feb. 23: International Fair with food, crafts and children's activities begins at 11:30 a.m. in the HUB and ends with a concert by the Irish folk-singing group "The Whole Shebang." There is no admission fee and tickets may be purchased for food.

Odyssey on WPSU

On the next episode of Odyssey Through Literature, Mark Fearnow of the Penn State Theatre Arts Department speaks about the life and work of playwright Claire Boothe Luce. Fearnow discusses how Luce lost her "talent for cruel wit" because of three major events that occurred in her later life. She became involved in politics, lost her daughter in a car accident and converted to Catholicism.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 8:30 p.m. on WPSU, 91.5 FM, from University Park, 106.7 FM in Altoona and on WFSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://mickley.la.psu.edu/compilit/odyssey/odyssey.htm>.

Faculty/Staff Survey

This Intercom insert describes efforts by the University to address issues raised by Survey respondents in the area of professional development and training.

Penn State must be recognized as a community that encourages professional development

As an educational institution that fosters the intellectual and social development of students, we must have a culture that also encourages the professional development of faculty and staff. An informed and knowledgeable work force is essential in meeting the challenges of preparing students for the 21st century. We must provide learning opportunities that prepare faculty and staff for the current and future challenges in their careers. It is imperative that we exemplify the same commitment to life-long learning that we advocate for our students.

In a large, complex institution such as Penn State, professional development will be approached differently unit by unit. That withstanding, a fundamental principle of an academic community is fostering and nurturing human potential. Although translating this principle into action may occur differently from faculty to staff and from college to college, we want Penn State to be recognized by faculty, staff and students as a community that fosters continuous learning.

Dr. John A. Brighton
Provost and Executive Vice President

Professional development: Whose responsibility is it?

Commitment must occur at all levels

"Interest in professional development — in business and industry, in health care organizations, education and government — is at an all time high," according to James H. Ryan, vice president for outreach and cooperative extension. "Employee education, training and development is now a \$100 billion industry."

"But I can recall," Dr. Ryan continues, "that as recently as 20 years ago when we talked about lifelong learning, people would ask, 'What's that?'"

"Widespread acceptance of the concepts of knowledge-change and continuous quality improvement has helped people realize that there is always something new to be learned on an on-going basis."

"It's essential," Dr. Ryan continues, "that employees in all organizations be committed to their own self development and recognize that this is a fundamental part of their commitment to the organization and to their job."

But employee commitment is only half of the picture, Dr. Ryan points out. The other half is the commitment the employing organization makes to the personal and professional development of its staff.

"One way to do this," Dr. Ryan continues, "is by clearly identifying the core capabilities or competencies that an organization needs and the parts of these competencies individual employees are contributing. Then, after assessing how well these competencies are developed, programs can be created

to help employees become more proficient."

Applying this model to Penn State, Dr. Ryan sees a good deal of progress, especially on the staff side.

"While the process is still a bit cumbersome," he says, "we are attempting to fully involve our unit heads, supervisors and employees in a dialogue and a plan, not only about their effectiveness but also about improving themselves both professionally and personally."

"I think one of our big challenges in the University is to get everybody to recognize how important comprehensive human resource development is to the long-term health of the organization. Supervisors must be willing to support released time for staff to participate in classes or programs and to reward and recognize the performance improvement that emerges."

"We also must appreciate the value of supporting employee growth. When people perceive that the University is willing to make an investment in their development, it's a powerful motivator."

Dr. Ryan sees no slowdown in the growth of lifelong education programs. He points out that by the year 2005, 85 percent of the people in today's workplace will still be there, and of this number, more than 90 percent will have had to undergo some kind of education or training to maintain their jobs or careers.

"My personal reading of the Faculty/Staff survey," he says, "is that we need to make professional development a higher priority for all faculty and staff

The individual and the organization both share responsibility

Who bears the most responsibility for professional development?

"Professional development is the responsibility of both the individual employee and the organization as represented by the employee's immediate supervisor," according to William J. Rothwell, associate professor of education.

Among Dr. Rothwell's most recent publications are the book, *Beyond Training and Development* (Amacon), and a training package, *The Self-Directed On-The-Job Training Workshop* (HRD Press), both issued in 1996.

"Sometimes, however," Dr. Rothwell continues, "a supervisor figures that employees will just come and ask if they need coaching to learn something and thus develop themselves professionally."

"Such a view is often mistaken. Employees want to look competent and are thus somewhat hesitant to request help for professional development

because they fear that such a request will be misinterpreted as an admission of incompetence and will be used against them at performance appraisal time."

Dr. Rothwell points out that one key to good coaching and to effective professional development is TRUST between workers and their immediate superiors. A second key is the willingness of individuals to take the initiative to seek out their own mentors and to take an assertive role in their own professional development.

"One of the essential differences between successful and unsuccessful people," Dr. Rothwell points out, "is

that the former do not sit around waiting for someone to tell them what they need to do to develop themselves. They are instead willing to take the initiative to find out. If workers do not want to approach their supervisor, then they should network with other competent, experienced coworkers who can supply immediate, specific coaching."

Dr. Rothwell notes that for those who aggressively seek out professional development the most important gain is mobility. But individuals must first spell out for themselves where they want to go in life, generally, and in their career, specifically.

Someone who is interested, for example, in moving from staff assistant to administrative aide should make the effort to locate and talk to an aide about the work requirements.

"Most people are more than willing to describe what they do on their jobs," Dr. Rothwell says. "However, it might take a year to acquire the skills one needs to advance. Simply to sit around and wait for an opening may mean not being ready to bid when it occurs."

If employees should take responsibility for pursuing their own professional development, what are the responsibilities of a coach or mentor?

"The coach will evaluate an individual's strengths and weaknesses relative to the position he or she seeks," Dr. Rothwell points out. "This assumes that the job description is accurate, which is not always the case, and that a sound performance appraisal system is in place."

Negative feedback from an appraisal often makes subsequent performance worse. Positive feedback

HRDC responds to the University's

The results of the Faculty/Staff Survey highlight the growing importance of professional development in today's rapidly changing world of work, according to Lenny Pollack, manager of Penn State's Human Resource Development Center (HRDC).

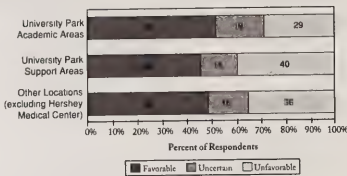
"More than ever," Dr. Pollack points out, "continuous development is essential for individual and organizational effectiveness. Success today depends, in part, on the ability to quickly acquire and apply new knowledge and technology as chang-

ing needs and expectations emerge. HRDC is committed to facilitating the University's development toward this end."

HRDC supports the vision of a multi-faceted professional development system designed to provide all employees with convenient access to relevant learning opportunities.

"To provide such access in an institution as large as Penn State, a variety of models or avenues for professional development are desirable," Dr. Pollack

About half of all University employees responded favorably to the statement: "In my department, we receive the necessary training and professional development to do high quality work efficiently." University Park Academic Areas express the greatest satisfaction with access to training and professional development.



WORK UNITS PROVIDE ONE ROUTE

College creates programs for faculty and staff

Creating opportunities for both faculty and staff to enhance their professional development is a priority of the College of the Liberal Arts, according to Raymond E. Lombra, associate dean for research and graduate studies.

One such opportunity, a mentoring program for new faculty was put in place last fall as the direct result of suggestions received by Dean Susan Welch during the course of a series of lunches she arranged with College faculty.

"The feeling was that since junior faculty are being held to higher and higher standards," Dean Lombra explains, "it isn't fair just to bring them in and expect them to swim upstream by themselves."

In addition to pairing more experienced faculty volunteers with newcomers who have indicated they would appreciate some guidance from the trenches, the College supports junior faculty with seed money for research.

"My office also sponsors a competition each semester for research funding," Dean Lombra notes, "and our guidelines give special consideration to proposals

submitted by junior faculty."

"Our view is that new faculty are essential to the future progress of the College, and it's important to invest in them."

Liberal Arts is also investing in workshops for both faculty and staff in the area of computer and information technology.

To emphasize its commitment to professional development at all levels, the College has created a Staff Fellowship Program. The first recipient, whose proposal was recommended by a staff committee, is Connie L. Moore, staff assistant in the Department of Psychology.

"I wanted to observe the best practices in use among the College's units," she explains, "with the eventual goal of gaining the experience I would need as an administrative aide."

CES empowers faculty to make learner-centered education the norm

By the year 2000, CES expects that no fewer than 80 percent of its faculty will have had the opportunity to convert at least one module of a course to active and collaborative learning, supported by technology.

"This is a major effort to help faculty build a contemporary learning environment in which students can participate

emphasizes.

Some opportunities — such as programs offered by HRDC, the Center for Excellence in Learning and Teaching (formerly the Instructional Development Program), and the Diversity Support and Education Center — are offered centrally. Other options are administered by work units such as campuses, colleges, and departments. Examples include college-sponsored internships, participation in conferences and other professional

association activities, and coaching from supervisors. Finally, some University groups and organizations, such as Penn State Educational Office Personnel and the diversity commissions, offer professional development opportunities for their membership and others in the University community.

"A comprehensive, multi-faceted professional development system allows employees to address their needs in any of several ways," Dr. Pollack notes.

Penn State has many avenues

any time and anywhere," according to CES Senior Associate Dean Jack P. Royer.

Under the code name, Project Empower, some 200 CES faculty have already used the Center for Learning and Academic Technologies (CLAT) to acquire the skills they need to prepare learner-centered courses.

Dean Royer points out that at most of the campuses CES provides Instructional Development Specialists (IDS) who are qualified instructional designers with multimedia production skills.

"Our IDS personnel," he notes, "run on-campus workshops to reduce outside trips for training and also work one-on-one with faculty who have been through Project Empower."

Two Project Empower convocations are held annually, CLAT Director Ann Deden reports, to allow faculty to share experiences and provide help in developing Empower proposals for classroom technologies.

Improving training and development a major Physical Plant goal

"Improving employee training and development is one of the four major goals we have incorporated into our next five-year strategic plan," says Office of Physical

Plant assistant vice president William J. Anderson.

To oversee progress toward these goals, OPP has established four Quality Management Boards, plus a fifth one that will focus on diversity.

Steering the board to improve training and development is Dorothy Green, OPP's manager of training education and development. Her program offers dozens of training courses annually, with topics ranging from safety, cable splicing and writing skills to coping with conflict in the workplace.

Cathy Aukerman, a janitor and 15-year employee, has participated in a number of these training sessions.

"This past November," she reports, "all three of our shifts attended a program that helped us look at ways to improve working with others. For example, we took turns trying out different approaches to getting along with a co-worker who had a hot temper."

When she gets more training, Mrs. Aukerman wants it to be in the area of safety procedures, as she believes cleaning personnel need to be aware of any potentially harmful condition in campus laboratory research areas.

"A training needs assessment is part of the annual performance appraisal of technical service personnel," Ms. Green

professional development needs

A division in the Office of Human Resources, HRDC is helping to meet the increased demand for professional development that was highlighted in the Faculty/Staff Survey results. During the last four years, the Center accommodated an average annual increase in attendance at HRDC programs of about 20 percent, according to Dr. Pollack.

"HRDC is responding to faculty and staff interest in professional development," he says, "by offering programs that are relevant, addressing barriers that impede professional development, and capitalizing on the University's wealth of expertise as a resource for professional development."

To ensure the availability of relevant opportunities, the Center prepares a comprehensive schedule of noncredit courses. Last fall HRDC offered more than 275 different workshops, including 40 new programs.

Offerings are tailored each semester to accommodate current needs and preferences. For example, to help faculty and staff adapt to today's rapid rate of change, HRDC is presenting a new series of programs this spring on "Indispensable Skills in a Rapidly Changing University."

Again, because of the increased

Barriers to professional development identified

As a follow-up to the Faculty/Staff Survey, HRDC is gathering data to identify obstacles to professional development at Penn State and will develop strategies to eliminate them.

The survey results suggest that there are barriers to convenient access that should be addressed," Dr. Pollack emphasizes. To better understand possible barriers, HRDC conducted a focus group that identified such factors as:

- Difficulty in obtaining release time
- Inadequate financial resources
- Inadequate coaching from superiors
- Lack of management support
- Failure to address development issues in annual performance reviews
- Lack of rewards and recognition for acquiring new skills
- Inconsistent professional development policies and practices

As a next step, HRDC plans to administer a questionnaire to assess the magnitude and importance of the barriers and then recommend ways to eliminate them.

importance of funded research to the University, HRDC is building partnerships with other units to offer programs of value to those active in research. Last fall it helped support a program on grant writing skills that was sponsored by the Faculty Senate Committee on Research. Spring offerings include "Landing the Big One: Techniques for Pursuing Large or Multi-disciplinary Research Opportunities"

and "Surfing for Gold: Using Electronic Sources to Identify Research Funding Opportunities."

"To capitalize on University expertise as an internal professional development resource," Dr. Pollack explains, "HRDC also strives to build partnerships to that faculty and staff with specific skills can use HRDC programs to disseminate their knowledge to others in the University."

sity." Currently this is exemplified by a variety of courses in which faculty and staff with expertise in such areas as marketing research, accounting, and communications teach HRDC courses to colleagues who need that expertise to do their work more effectively.

In addition, HRDC programs provide other Penn State units with a means of disseminating specific knowledge and skills throughout the University. Toward this end, HRDC collaborates with many partners throughout the University, among them the Center for Quality and Planning, Continuing and Distance Education, and the Center for Academic Computing to name just a few.

"By working together to share our respective talents," Dr. Pollack concludes, "we can help each other and the entire University to adapt quickly to rapidly changing demands and priorities. This requires faculty and staff to be active participants in the professional development process, both as learners and as instructors. If we pool our collective knowledge, we can help one another learn how to meet the challenges of today and tomorrow." ■

professional development

says, "and comments like Cathy's are helpful in establishing the direction additional training programs should take."

Susan M. Rutan, human resources manager, has responsibility for a board monitoring efforts to improve leadership and accountability by developing programs to boost supervisory skills. She notes that her board is building on a baseline philosophy established after a major training effort for supervisors was instituted several years ago.

"Given budgetary restraints," Mr. Anderson says, "our dilemma is how much of our resources should be used to prepare our work force for future jobs as opposed to concentrating on improving

the skills we currently need."

"Can the University afford to wait three years to fill a position while the candidate completes a demanding apprenticeship program? There are no easy answers to these questions."

OPP's apprenticeship program offers participants unparalleled opportunities. Licensed by the state's Bureau of Apprenticeship and Industry, the program develops workers with limited skills into journeymen in such trades as electrical, elevator, heating and ventilating, and refrigeration.

Keith McWilliams came to Penn State in 1974, as a receiving clerk in Food

Services. Progressing through a series of jobs, he qualified for one of the slots in the seven-year program, emerging as a refrigeration and air conditioning journeyman.

"It took me four years to complete the 8000 hours of coursework required by the state and three more for on-the-job training at Penn State," he says, "but anyone lucky enough to get into this program gets more education than if they went to a technical school."

Continuous training and development at The Nittany Lion Inn

The aim of GuestPride, the Penn State Hospitality Services Strategic Development Plan, according to Michael C. Conti, Nittany Lion Inn operations manager, is to reinforce the fact that excellence is achieved through people, and that training and developing people is more of a process than an event.

To this end, all Inn employees attend an intensive job orientation program as well as GuestPride core course training, supplemented by daily team briefings and annual refresher sessions. Managers are expected to attend a minimum of 16 hours a year of management development training.

To help reinforce training behaviors,

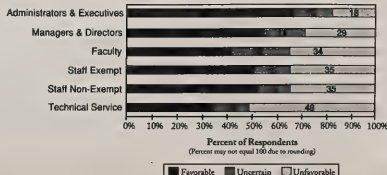
the Inn will recognize exceptional performance with PRIDE POINTS tickets, and winners' names will be posted on a prominently displayed Winners Wall of Fame.

Additional Avenues to Professional Development continued on page 4

"I believe it is most important to anticipate the training and development needs of staff when new systems or procedures are introduced if we are to maximize our investment in both people and technology."

David Wormley
Dean, College of Engineering and
Chair, University Council on
Continuous Quality Improvement

Administrators and executives rated access to training and professional development more favorably than other groups—particularly technical service employees.



Commitment at All Levels*continued from page 1*

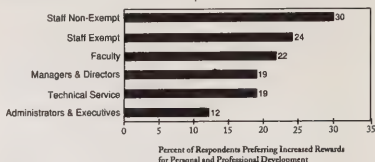
within the University.

"Looking ahead to the next decade in higher education, I am convinced that we must increase our lifelong learning activities throughout the entire University community so that the education and training we provide is of the highest quality and delivered in the most creative and effective way possible."

"I firmly believe that employees have an inherent right to expect development activities and support from the organizations in which they work and that organizations have the right to expect their employees to make a similar commitment in terms of a willingness to grow and develop."

"Organizations," Dr. Ryan concludes, "get better by people getting better." ■

Staff Non-Exempt, Staff Exempt, and Faculty show the greatest interest in increased rewards for personal and professional development.

**Avenues to Professional Development**
*continued from page 3***CENTRALLY ADMINISTERED PROGRAMS
ADD TO OPTIONS****Academic Leadership Forum designed for department heads**

Because department heads have some of the most significant leadership responsibilities in the University, but frequently assume their positions without a great deal of administrative experience, a seminar series, the Academic Leadership Forum, has been established at the initiative of Executive Vice President and Provost John A. Brighton.

After an orientation session last spring to discuss what topics might be of interest, two seminars a semester were scheduled. Vice Provost Robert Secor is co-chairing the forums with Louise E. Sandmeyer, executive director, Center for Quality and Planning.

The first Fall '96 session was designed for new department heads, with President Graham Spanier and Provost Brighton as principal speakers. "Working with Change" was the topic of the second program, to which all department heads were invited. Michigan State's Provost was the guest speaker.

Participants meet from 8 a.m. to 1 p.m., according to Dr. Secor. After a continental breakfast, a guest speaker presents an overview of the topic. Then the group may break into small work units for discussion or hear the views of panelists. Everyone gets together for a final group discussion, and the program concludes after a lunch and conversation with President Spanier.

One of the forums this semester will consider how department heads can respond to concerns raised by the Faculty/Staff Survey.

Diversity Center tailors training

Established in October, 1995, the Diversity Support and Education Center, while housed in the Office of Affirmative Action, is now a separate entity. Sandra Vector serves as its coordinator and Beth McLaughlin is a diversity specialist.

The Center offers a set of programs through the Human Resources Development Center, dealing with issues of race, gender, disabilities, sexual harassment and sexual orientation. However, it also tailors programs to fit specific requests from various units at Penn State.

"The goal of diversity training," Ms. McLaughlin explains, "is to help organizations improve the climate in the workplace, by making both management and employees more aware of their feelings and ultimately more comfortable with one another."

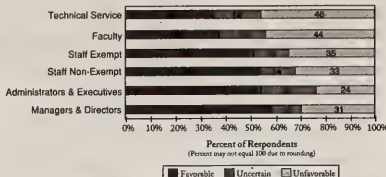
Instructional improvement focus of Center

Operating out of the Office of Undergraduate Education, the Center for Excellence in Learning and Teaching supports instructional improvement with a variety of programs for faculty, instructors and teaching assistants throughout the Penn State system.

Among its services, according to associate director Kathryn Plank, are orientation programs for new instructors, preparing publications on teaching and learning, a ten-week college teaching course, workshops and individual consultations.

Teachers of large classes can share

Faculty and technical service employees are the least satisfied with the ideas they receive from the person to whom they report on how to improve their work.

**Shared Responsibility**
continued from page 1

that offers information on how an employee might change and develop is much more effective."

Coaching can be informal — one employee seeking information from another — or structured. The coach's role, just as in sports, will vary depending on the experience of the employee-player.

Above the coach and the employee

pedagogical techniques in an online forum, and the Center also maintains a file of activities to help instructors obtain effective student feedback.

The Center has a continuously updated Web site, which can be accessed at www.psu.edu/idp_cclt.

Administrative Fellow prepared for new role

Claudia Limbert started college at age 35, the mother of four children. After graduating, she went on to earn her master's and Ph.D. and then took a position as an assistant professor of English at the Shenango Campus.

But that's not the end of the story.

In addition to her research and teaching commitments, she served as ombudsman and also as chair of the Senate at Shenango before getting tenure and being promoted to associate professor. At that point, friends began to urge her to apply for one of the three administrative fellowships offered annually by the central administration at University Park. These fellowships were established as a result of a recommendation by the Commission for Women.

"I wasn't very hopeful," Dr. Limbert recalls, "but I had a wonderful interviewing experience, and when I was accepted, working on the CES staff turned out to be the best year of my life. Halfway through it, I knew that being an administrator was what I wanted to do, so I applied for the position of director of academic affairs at DuBois and here I am."

"I think that too often women have what I call a 'Cinderella Complex.' They believe that if they work hard, some prince will discover them."

"But that's not enough. You also have to move forward on your own. If you have a dream, get out there and find out what your options are, apply for them

is the organization, which also has a role to play in professional development, according to Dr. Rothwell.

"The management of any organization," he concludes, "has an obligation to make clear what requirements are really necessary at different levels. It is also good management to help individuals who are willing and capable to develop themselves in line with those requirements." ■

SOME MAY CHOOSE INTEREST GROUPS

Many groups and organizations across the University provide learning opportunities, sometimes not only for their members but also for other campus constituencies.

As an example, Penn State's Commission for Women, as one of its activities, is planning its second annual Workshop for Technical Service Workers, to be held in February. The one-day program is designed to help women explore non-traditional occupations and to assist them in developing strategies for balancing their work and personal lives.

Increasing the level of professionalism of University office personnel is one of the major objectives of Penn State Educational Office Professionals (PSEOP).

With 121 members drawn from University Park and the campuses, PSEOP offers opportunities for both continuing education and informal peer interaction.

Not only does it provide up-to-date information on relevant workshops, conferences and seminars but it also has a Grant-in-Aid program to help with out-of-pocket expenses for those registering in University and professional development courses.

Still another example of an interest group that provides learning opportunities is Professional Women at Penn State. This organization holds monthly meetings with the goal of providing a setting within the University community where all Penn State women can develop both professional and personal skills. The group also seeks to develop and maintain a communications network for members.

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UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, February 14

- "A Tribute to Black Music," noon, Kern. Graduate Commons, noon, Kern Lobby.
- "Urban Fusion."

School of Music, 6 p.m., Old Main Lobby. "Celebration of Love." For tickets, phone (814) 865-0431.

School of Music, 8 p.m., Eisenhower Auditorium. "School of Music Montage." For tickets, phone (814) 865-0255.

Saturday, February 15

- African Student Association, 6 p.m., Findlay-Johnston Commons. Dinner and dance titled "A Touch of Africa."

School of Music, 7:30 p.m., Old Main Lobby. "Celebration of Love." For tickets, phone (814) 865-0431.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Battle of the Big Bands, Round 2." For tickets, phone (814) 865-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Michael Hooper, percussion.

Sunday, February 16

- Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "Nai-Ni Chen Dance Recital." For tickets, phone (814) 865-0255.

School of Music, 8 p.m., Recital Hall. Graduate Recital presents Tim McKay, trombone.

Monday, February 17

School of Music, 8 p.m., Recital Hall. Faculty Recital presents John Daniel, trumpet.

School of Music, 8 p.m., 122 Music II. "Kierman Recital/Lecture"

- Paul Robeson Cultural Center, 7:30 p.m. Film titled "Sankofa."

Tuesday, February 18

School of Music, 8 p.m., Recital Hall. Student Recital presents Douglas Fisk, piano.

School of Music, 8:30 p.m., Eisenhower Chapel. Faculty Recital presents Tim Hurt, oboe.

Wednesday, February 19

- International Student Council, 7 p.m., Paul Robeson Cultural Center. Italian Dance Group (Iguillari di Piazza).

School of Music, 8 p.m., 122 Music II. "Kierman Duet Recital."

Thursday, February 20

School of Music, 8 p.m., Recital Hall. "Kierman Recital." through Feb. 21.

Friday, February 21

Kern Graduate Commons, noon, Kern Lobby. Concert titled "Susan & Andy."

- International Coffee House, 7 p.m., HUB Ballroom. "The Penn State International Dancers."

University Resident Theatre Company, 8 p.m., The Playhouse. "A Raisin in the Sun." by Lorraine Hansberry, directed by Charles Dumas, through March 1. For tickets, phone (814) 865-0255.

Saturday, February 22

- Penn State Filipino Association, 5 p.m., 102 Kern. "Barrio Fiesta." For tickets, phone (814) 867-7166 or (814) 234-6267.

School of Music, 8 p.m., Recital Hall. Student Recital presents Andrea Henry, horn.

- Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "National Traditional Orchestra of China." For tickets, phone (814) 865-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Jeannie Onnemus, oboe.



Practice makes perfect

Members of Pennsylvania Dance Theatre rehearse for, "Winter Concert of World Premieres," which they'll perform at 8 p.m. Friday, Feb. 14, and Saturday, Feb. 15, at the Pavilion Theatre on the University Park campus. For ticket information, call the Eisenhower Ticket Center at (814) 865-0255.

Sunday, February 23

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents "Painting by The Light at the Palmer Museum," by Robin Seymour.

School of Music, 2 p.m., Recital Hall. Student Recital presents an organ studio recital.

School of Music, 2 p.m., 122 Music II. Student Recital presents Michael Rider, voice.

SEMINARS

Friday, February 14

Geography, 4 a.m., 206 Walker. Cynthia Brewer on "Killer Cartography: Map Design Research for the NCHS Atlas of United States Mortality."

Philosophy, 4 p.m., 124 Sparks. Joseph Flay on "Difference and Identity."

Saturday, February 15

Sociology, 11 a.m., 101 Thomas. Svante Paabo on "Human History as Seen Through Genetics: Ancient and Modern DNA Sequences Reveal New Aspects of Our History."

Monday, February 17

Continuing and Distance Education and the College of Education's Adult Education Program, 11:45 a.m. to 1 p.m., 502 Keller. Kimberly A. Townsend on "Human Resource Development Function as an Adult Education Application."

Catholic Faculty and Staff Fellowship, noon to 1 p.m., 212 Eisenhower Chapel. The Rev. Joseph Adamon on "Lunch with the Bishop: Open Forum."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. John Harwood on "CAC Support for Teaching."

Gravity Center, 2 p.m., 339 Davey Laboratory. Rodolfo Gambini on "Chern Simons Theory and Spin Knot Invariants."

Physics, 3:30 p.m., 339 Davey Laboratory. Charles Kane on a subject to be announced.

- Australia-New Zealand Studies Center, 3:30 p.m., 102 Weaver. Barry Gustafson on "Race, Land and Politics in New Zealand: Compromise or Confrontation?"

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Norman Swanson on "Computing Issues in Econometrics."

Computer Science and Engineering, 4 p.m., 302 Pond Laboratory. Ilano Cervantes on "A Linear Logic Framework."

Tuesday, February 18

- Center for Women Studies, noon to 1:15 p.m., CWS Resource Room, 120 Boucke. Film titled "Jessie Norman."

Physics, 3:30 p.m., 339 Davey Laboratory. Francis Halzen on "Toward a Kilometer-Scale Neutrino Detector: The Amanda Experiment."

Computer Science and Engineering, 4 p.m., 302 Pond Laboratory. Fairouz Kaharedine on a subject to be announced.

Wednesday, February 19

Gerontology Center, 12:15 to 1:15 p.m., The Living Center, 110 Henderson. Eric T. Poehlman on "Regulation of Energy Metabolism and Substrate Utilization in Aging Humans."

- Center for Ethics and Religious Affairs, 7:30 p.m., Paul Robeson Cultural Center. Shahid Athar on "Malcolm X: A Perspective from the Islamic Community."

Thursday, February 20

Gravity Center, 11:30 a.m., 339 Davey Laboratory. Alejandro Corichi on "Quantizing 2+1 Gravity with Λ not equal to 0."

Physics, 3:30 p.m., 101 Osmond Laboratory. Melvin Kalos on "Supercomputing Science in the Next Century."

American Studies, 4 p.m., Women's Studies Lounge, Sparks. Murry R. Nelson on "Basketball as Cultural Capital: The Original Celtics in Early 20th Century New York City."

Computer Science and Engineering, 4 p.m., 302 Pond Lab. Kevin Brown on "Network Architecture and Communication Protocols for Mobile Computing."

Food Science, 4 p.m., 117 Borland Laboratory. Pat Lawlor on "Kinetic and Polymorphic Advantages of Polar Lipids During Cocoa Butter Solidification."

- Center for Ethics and Religious Affairs, 7:30 p.m., Paul Robeson Cultural Center. Shahid Athar on "Malcolm X: A Perspective from the Islamic Community."

Friday, February 21

Philosophy, 4 p.m., 124 Sparks. Vincent Coplietio on "Reconfiguring Need and Desire: Dewey in Light of Lacan."

- Geography, 4 p.m., 26 Hosler. Anthony Cohen on "The Underground Railroad Walk to Canada."

Sunday, February 23

Paul Robeson Cultural Center, 25th anniversary celebration, 4:30 p.m. Cultural Center. Paul Robeson Jr. to speak.

CONFERENCES

Monday, February 17

"Food Service Manager 2002 Institute," through Feb. 18. For additional information, phone (814) 865-5140.

Wednesday, February 19

"Christmas Tree Management," Penn State Scanlon, through Feb. 21.

EXHIBITS

HUB Art Alley Cases

- African artifacts by Sharon and Jim Mortensen, through Feb. 16.
- Office of International Studies presents "International Festival," Feb. 20 through April 6.

HUB Art Alley Panels

Unity Days and graphic design "Imagine a World," through Feb. 23.

HUB Browning Gallery

- Photography exhibit titled "Our Land" by Jay Sieminski, through Feb. 23.

HUB Formal Gallery

"Memories of Childhood," through Feb. 22.

HUB Sculpture Corner

"American Gothic Revisited," by Jane Richey, through May 21.

Kern Panels

Perry Oliver, international printmaker, displays works, through Feb. 20.

Kern Titled and Flat Cases

Visual art display "Dust-Jackets" by Chip Kidd, through Feb. 16.

Palmer Museum of Art

"Disarm Science: Photo Works by Alan Sekula, 1972-1996," through March 16.

"Capturing the Light: A Selection of 20th-Century American Watercolors" by Winslow Homer, through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through Feb. 15.

Zoller Gallery

School of Visual Arts, "Undergraduate Juried Exhibition," through March 28.

- Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at URL <http://cac.psu.edu/calendar/>

Faculty/Staff Alerts

Commission for Women to hold annual spring banquet March 17

The 12th Annual Spring Banquet of the Commission for Women, "On Our Own... Challenges, Success and Looking Toward the Future," will be held on Monday, March 17, at the Nittany Lion Inn on the University Park campus. A reception will be held at 5:30 p.m., with dinner beginning at 6 p.m. The banquet is traditionally held in March as part of the celebration of Women's History Month.

This year's program will focus on the challenges women at Penn State have met in years past, the success women have experienced in a variety of areas and the future directions of our women students. Special presentations will be made to honor the first members of the Commission for Women. In addition, the 1997 Rosemary Schraer Mentoring Award will be presented. Women artists also will be showcased in performances during the program.

Tickets are \$18 for non-students and \$10 for students. Reservations must be made by March 7. Child care will be available for children 2 years old or older (pre-registration required). Banquet invitations and information are available from the Commission for Women Office, 311 Grange Building, or by calling (814) 865-1863. As in the past, tables will be available for purchase by individual units or organizations.

In addition, scholarships are available for students; donations toward these scholarships will be accepted along with payment for tickets. For more information, please contact Tracy Leitzel at the Commission for Women, (814) 865-1683 or e-mail at tll8@psu.edu.

Health Promotion Programs

The following programs are being offered by the Office of Human Resources:

■ Self Defense for Life

This introductory seminar explains how prevention, assertion and confrontation/coping skills can be used for self-defense against attackers and stressors. Meets Thursday, Feb. 20, from noon to 1 p.m. in 101 Kern Building. Cost: \$7, reimbursable to HMO participants. To register, contact Jan Hawbaker at (814) 865-3085 or JQH3@psu.edu.

■ Adult Children of Alcoholics

This session will now meet each Thursday in February from noon to 1 p.m. in the Harshbarger Room of the Eisenhower Chapel. No prior registration required, and there is no cost. All faculty, staff and students are welcome.

HUB offers art classes

The Hetzel Union Center for Arts and Crafts in Room 312 of the HUB offers instruction in a variety of arts and craft areas, membership to a ceramic studio and access to pottery tools, equipment and supplies. The programs are offered for students, faculty, staff, spouses and residents of the surrounding community. Most adult classes meet once a week for six weeks from 7 to 9 p.m. There are some morning and afternoon classes available. The second session begins the week of March 24 and classes are filled on a first-come-first-served basis. Class fees range from \$50 to \$65 and some classes include bead working, drawing, bookmaking, mixed media, painting, stained glass and pottery.

For more information on the classes, to register or to be put on the center's mailing list, contact Bernadette Carroll at (814) 863-0611.



Creative juices flowing

Matt Coon, a senior majoring in sculpture, puts the finishing touches on a life-size mold that will be cast as a fiberglass figure. He and other arts students were hard at work in the Visual Arts studios on the University Park campus recently.

Photo: Greg Grieco

Telecommunications laboratory a boon to undergraduate students

A state-of-the-art wireless telecommunications laboratory to serve undergraduate programs in electrical engineering technology has been established at Penn State Harrisburg.

Created at a cost in excess of \$150,000, the lab was funded by a National Science Foundation grant and matching funds from Penn State Harrisburg and the University.

"The lab will answer the needs of engineering education in the rapidly expanding area of telecommunications," said Ali Behagi, associate professor of electrical engineering at Penn State Harrisburg. "It has given us great capability, expanding the design, fabrication and measurement range in the lab to nearly the highest available frequency."

Wireless and satellite communications are currently

among the fastest-growing technologies. With the rapid expansion of local, regional and global communication systems such as cordless and cellular phones, microwave and satellite communication and distance learning, the demand for wireless and microwave has grown considerably.

The newly installed automated test instruments have extended the frequency range of Penn State Harrisburg's lab from about 100 megahertz to more than 20,000 megahertz. This extended range makes it possible for students to design, fabricate and elevate circuits for all types of wireless communication systems. It is also envisioned that the facility will be an essential part of the proposed bachelor of science degree in electrical engineering at that location.

High-tech twist added to Spanier's radio show

The February edition of President Graham B. Spanier's monthly radio show, "To the Best of My Knowledge," will focus on information technology. To emphasize the point, the Feb. 18 show will include some high tech aspects. The show airs at 7 p.m.

Not only can listeners of the WPSU-FM (90.1, 91.5 and 106.7) radio

"To the Best of My Knowledge" will air at 7 p.m. Tuesday, Feb. 18, on WPSU-FM (90.1, 91.5 and 106.7).

show that reaches 14 counties in central and northern Pennsylvania take part, but anyone in the world with access to the Internet also will be able to participate in this special program on technology.

One of the LionCams — cameras that the office of University Relations, the Center for Academic Computing and the Penn State Alumni Association have placed at various locations around the University Park campus so that various sites on campus can be viewed from the World Wide Web — will be moved into the studio in Wagner Building Annex where the radio show originates.

Spanier's hourlong radio show traditionally includes questions from the listening audience through a special telephone line, 1-800-543-8242. This show about technology will include a special e-mail address that has been established so people also can use the Internet to submit questions. The e-mail address, response@psu.edu, can be used beginning at noon Tuesday, Feb. 18, and will be in operation until the end of the show, at 8 p.m.

As part of a test of new technology, there also will be an experiment using RealAudio technology to broadcast the radio show live over the Internet to a small number of listeners around the world. Those listeners also can submit questions during the show using e-mail. Spanier will have a computer in the sound booth where he can read the incoming electronic mail during the show.

Joining Spanier will be two guests taking part from remote locations via telephone. They are Robert Heiterik, president of a consortium of universities that represents higher education interests in information technology issues, and James Ryan, vice president for Outreach and Cooperative Extension at Penn State.

■ Fulbright Program

Grant recipients come from several locations

In the U.S. Fulbright Program for 1996-97, four of the six Penn State Fulbright recipients were faculty members from locations other than University Park. Scholar Fulbright grants for 1996-97 were awarded to:

— **Simon J. Bronner**, professor of folklore at Penn State Harrisburg campus of the Capital College, Japan.

— **David M. Esposito**, instructor of history at Penn State Altoona College, Indonesia.

— **Kenneth K.T. Louie**, associate professor of economics at Penn State Erie, The Behrend College, the People's Republic of China.

— **John D. Matthews**, director of the Communications and Space Sciences Laboratory, Department of Electrical Engineering, Sweden.

— **David Miller**, professor of physics at Penn State Hazleton campus, Poland.

— **Merlin A. Vannice**, distinguished professor in the Department of Chemical Engineering, Germany. Fulbright grants allow professors to teach, research and share their expertise with colleagues in other countries.

In addition to Penn State faculty going abroad, many international scholars come to the University to work with faculty and students as well. The following international Fulbright scholars are now at University Park teaching, consulting and conducting research with Penn State colleagues as under the sponsorship of the J. William Fulbright Foreign Scholarship Board and the United States Information Agency.

The scholars, who they are working with and their area of study are:

— **Olexander Hrytsenko**, Institute of Cultural Policy, Ukrainian Centre of Cultural Studies, Kiev, Ukraine. He will be here until August 1997, studying U.S. public cultural policy and private patronage of the arts.

— **Bogdan Stefanescu**, the faculty of Foreign Languages and Literatures, the University of Bucharest, Romania. He will be here until June 1997 studying the rhetoric of post-totalitarian discourse.

— **Tatyana Sayenko**, associate professor, Department of English Language at Kiev Linguistic University, Kiev, Ukraine. She will be here until September 1997, researching cross-cultural differences in the usage of economic terminology in English and Ukrainian.

— **David B. Lewis**, chief inspector and head of training at the Durham Police Training Centre in England. He will be here until April 1997 learning about the continuing education of law enforcement personnel in the U.S.



Monty L. Christiansen, associate professor of recreation and parks management, and **Hans Vogelsgang**, Ph.D. candidate in leisure studies, are co-editors of *Play It Safe: An Anthology of Playground Safety*, Second Edition.

Published by the National Recreation and Park Association, the second edition of this anthology updates every chapter to include new changes in playground evaluation and management, adds a new chapter on court litigation techniques, includes a detailed comparison of the two major playground safety documents, and provides readers with the first globally collected glossary of terms related to playground safety and a detailed index. The book will be used as a text for the National Playground Safety Institute's certified playground safety inspector course, as well as for a Penn State distance education course.

Katherine T. Frith, associate professor of advertising in the College of Communications, is editor of *Advertising in Asia: Communication, Culture and Consumption* (Iowa State University Press).

The book examines how advertising operates in the more developed countries of the Asia/Pacific region, including Japan, Hong Kong, China, Taiwan, Korea and India. Written by practitioners and scholars from throughout Asia, *Advertising in Asia* examines current issues such as political structure, national development policies, cultural and religious systems, press policies and advertising regulations.

S.K. Majumdar, Lafayette College, **E. Willard Miller**, professor emeritus of geography at Penn State, and **Fred J. Brenner** of Grove City College are co-editors of *Foresis: A World Perspective* published by The Pennsylvania Academy of Science.

In the book, the authors address a variety of topics related to the ecology and management of forest resources. Part one on forest ecology considers such aspects as forest regions of the world, forest hydrology and entomology, regeneration ecology and an integrated model of forest dynamics. Part two, on environmental aspects, treats modeling forest response to climatic change, diversity loss, effects of acid deposition on forests, effects of radiation on forest and other environmental topics. Part three deals with socio-economic aspects such as forest-based economic development, urban forest management, spatial and temporal trends in agricultural woodlands and appropriate export strategies. Part four provides an international perspective with case studies from India, Russia, Sweden, the Sahel, the Himalayas and Brazil.

Chapters from Penn State faculty include **J. Christopher Haney**, **William Merrill**, **Wayne L. Myers**, **Jonathan Lyon**, **William E. Sharpe**, **Stephen M. Smith**, **James C. Finley**, **William Elmendorf** and **Paul M. Smith**.

John D. Martz, distinguished professor of political science, is the author of *The Politics of Clientelism; Democracy and the State in Colombia*, published by Transaction Publishers (1997). Before this book, Martz wrote *United*

States Policy in Latin America: A Decade of Crisis and Challenge, University of Nebraska Press, in 1995.

E. Willard Miller, professor emeritus of geography and associate dean for resident instruction in the College of Earth and Mineral Sciences, and **Ruby M. Miller**, associate librarian emeritus, Pattee Library, are co-authors of *United States Immigration*, published by ABC/CLIO, Santa Barbara, Calif.

This book gives a comprehensive overview of the roots of immigration, the development of U.S. immigration policy and trends in legal, illegal and refugee immigration. It also presents a chronology and summary of immigration laws and regulations; a directory of organizations; extensive annotated bibliography of books, as well as more than 600 articles from journals and government publications; and an annotated list of videos and films. The book is a valuable resource for research on one of the most complex issues in contemporary society.

Steam locomotive operation and the Reading Railroad may be long gone, but thanks to author **Jeremy F. Plant**, they are not forgotten. Plant, professor of public policy and administration at Penn State Harrisburg, has written a new book, *Reading Steam in Color*, which features more than 200 color photographs of the last 10 years of steam locomotive operation on the Reading Railroad.

The hardbound book, published by Morning Sun Books Inc. of Edison, N.J., is filled with never-before-published vintage photos. Plant provides a guide to the history and operations of the Reading, with a special emphasis on its three major roles: serving the needs of the metropolitan Philadelphia region, providing a bridge line for traffic between Pennsylvania and other sections of the country, and service to the anthracite coal industry of northeastern Pennsylvania.

A new book by **Lynne Vernon-Feagans**, professor of human development and associate dean in the College of Health and Human Development, examines the relationship between children's transition to school and their cultural, ethnic and economic backgrounds.

Children's Talk in Communities and Classrooms, published by Blackwell Publishers, traces the transition to school of a group of poor African American children in semi-rural North Carolina. Half of the children were part of an intensive early day-care intervention program designed to prepare them for formal schooling and half were not. Vernon-Feagans describes the less than optimal treatment given to the children during the transition to public school, as well as describing the many strengths of the children's home communities. Her conclusions provide strategies for the successful engagement between child and classroom.

David Wormley, dean of the College of Engineering, has co-authored a textbook titled *System Dynamics: An Introduction* published by Prentice-Hall Inc., with **Derek Rowell**, professor of mechanical engineering at Massachusetts Institute of Technology.

The text, a direct outgrowth of the many years both authors spent teaching a sophomore-level course in system dynamics at M.I.T., is organized for use in a range of courses from undergraduate to the graduate level. Engineering systems, ranging from large structures excited by wind and seismic forces, to ocean ships and platforms excited by wind and waves, are covered in this book. The system dynamics approach of the book "provides important unifying concepts for the analysis of systems which span the traditional engineering disciplines."

Appointments

Behrend welcomes new director of development

Judy Lawrence, director of major gifts at Franklin & Marshall College in Lancaster, Pa., has been named director of development at Penn State Erie, The Behrend College. As the college's chief advancement officer, she will be responsible for supervising staff in fund raising, public information, alumni relations and special events.



JUDY LAWRENCE

As director of major gifts at Franklin & Marshall, Lawrence played a key role in the college's capital campaign and carried out stewardship responsibilities for about 750 major gift donors and prospects. She joined F&M in 1993 as director of corporate and foundation relations. From 1987 to 1993, she was director of corporate relations at Claremont McKenna College in Claremont, Calif. She also served as executive assistant to the president and vice president of Clarkson University, Potsdam, N.Y., from 1983 to 1986.

Lawrence is a native of Erie and holds bachelor's and master's degrees from Edinboro University of Pennsylvania. She reports to Elaine Rhodes, director of University development at University Park.

Eberly College of Science Advising Center welcomes director

James Levin has been named director of the Eberly College of Science Advising Center.

Levin earned his bachelor's degree in civil engineering at Drexel University in 1968, his master's degree in ocean engineering at the University of Hawaii in 1970, and his doctoral degree in curriculum and instruction at Penn State in 1981. He has authored or coauthored seven books, including *Principles of Classroom Management: A Professional Decision Making Model* (2nd Edition) and *The Self Control Classroom: Understanding and Managing the Disruptive Behavior of All Students Including Students with ADHD*. He has authored or coauthored more than 40 articles published in professional journals. Levin has been certified to teach mathematics, physics and general science in Pennsylvania and has served as a professional consultant for more than 50 school districts and universities.

He was a mathematics teacher in the Philadelphia school system from 1968 to 1969 and a mathematics and science teacher in the Cheltenham Township School District from 1970 to 1976. He joined Penn State in 1978 as an instructor of education, serving as a university supervisor of secondary student teachers until 1980, when he became assistant professor of education in the Division of Curriculum and Instruction. Levin was an academic adviser in the Division of Undergraduate Studies from 1982 to 1989 and was a staff associate for program development and analysis in the Division of Undergraduate Studies from 1989 to 1993.

Since 1982, he has been a member of the graduate faculty and an affiliate assistant professor in the College of Education Division of Curriculum and Instruction. He has been the senior Division of Undergraduate Studies programs coordinator and the coordinator of advising research, training, and

program development in the Eberly College of Science since 1993.

Nittany Lion Inn sales manager moves to position in Smeal College

Meredith Williams, formerly a sales manager at the Nittany Lion Inn, is the new coordinator of student organizations in The Smeal College of Business Administration. In her new post, she will be responsible for guiding student service activities for the college's 27 undergraduate student organizations. Williams succeeds Rebecca Olson who recently stepped down as student organizations coordinator after five years.



MEREDITH WILLIAMS

While a sales manager at the Nittany Lion Inn, Williams served on the facility's Total Quality Management Team. That group developed ways to increase teamwork among the inn's employees, standardize communication methods and reduce negative work habits.

Before she joined the University staff, Williams was employed in human resources with the Ritz-Carlton Hotel Co. in Tysons Corner, Va. From May 1992 to August 1992, she was an administrative resident at North Penn Hospital in Lansdale, Pa. Williams graduated from Penn State in 1993, with a B.S. degree in health policy and administration. She is a member of the American College of Health Care Executives, the Washington Area Concierge Society and the Penn State Alumni Association.

Promotions

Staff

Mark E. Amsler, complex manager in College of Agricultural Sciences.

Frederick B. Angell, office information specialist in Continuing and Distance Education.

Joseph E. Brote-Markle, engineering aide in the Applied Research Laboratory.

Deborah M. Davies, unit coordinator, Expanded Food and Nutrition Education Program in College of Agricultural Sciences.

Ruth DeShong, staff assistant VII at Penn State Altoona College.

Philip M. Devan, manager, Network Design Services in Computer and Information Systems-Telecommunications.

Linda L. Drye, staff assistant VI at The Hershey Medical Center.

Colleen M. Evans, development assistant in Division of Development and Alumni Relations.

Carol L. Fisher, unit coordinator, Expanded Food and Nutrition Education Program in College of Agricultural Sciences.

Kevin M. Fox, art editor, Applied Research Laboratory.

Priscilla A. Garthwaite, staff assistant

VI in Division of Development and Alumni Relations.

Ethel L. Gunnett, staff assistant V at Penn State Altoona Campus.

Donna M. Harpster, staff assistant VII at Penn State Altoona College.

Anita A. Heichel, staff assistant VI, Commonwealth Educational System.

Beth H. Irvin, staff assistant VII in College of Agricultural Sciences.

Jennifer C. Kerr, staff assistant VI in Computer and Information Systems-Center for Academic Computing.

Darlene K. Kolovsky, staff assistant V in Student Affairs.

Mary E. Kunze, lab supervisor in Research and Graduate School.

Linda J. Nedimyer, staff assistant VII at Penn State Altoona College.

Ruth E. Nyman, staff assistant IX in College of Agricultural Sciences.

Joseph W. Reasy, director of development in Division of Development and Alumni Relations.

Michael S. Rineer, senior microcomputer system consultant in The Smeal College of Business Administration.

Shani L. Schalles, research support associate at The Hershey Medical Center.

Sheri L. Shawver, staff assistant V in College of Agricultural Sciences.

Susan R. Smith, administrative assistant I, Commonwealth Educational System.

Deborah A. Snyder, staff assistant VII in Division of Development and Alumni Relations.

Randall L. Swope, coordinator of support units in College of Agricultural Sciences.

Paul T. Tarbay, supervisor, mail and processing in College of Agricultural Sciences.

Susan L. Taylor, assistant manager, Call Center Services in Computer and Information Systems-Telecommunications.

Michael R. Teeters, education and training officer in University Safety.

Kelly R. Tetkoskie, staff assistant VI at The Hershey Medical Center.

William R. Valonis, microcomputer information specialist, The Smeal College of Business Administration.

Anna M. Very, staff assistant VII at Penn State Altoona College.

Elizabeth K. Wilson, associate director, marketing and membership in Division of Development and Alumni Relations.

Mary Ann Winkler, operations coordinator II in Computer and Information Systems-Telecommunications.

Ronald R. Zimmerman, staff assistant VI at The Hershey Medical Center.

Shawn M. Zimmerman, network analyst, Commonwealth Educational System.

Technical Service

Donald R. Confer, catering attendant in Housing and Food Services.

Michael D. Jackson, groundskeeper/landscape A in the Office of Physical Plant.

Jeffrey F. Kavelak, catering attendant in Housing and Food Services.

Terry L. Prisk, athletic equipment/laundry worker in Intercollegiate Athletics.

Alan W. Shaffer, residence hall preventive maintenance worker in Housing and Food Services.

Shirley A. Stouffer, snack bar worker B in Housing and Food Services.

Lesli J. Stone, food preparer at Penn State Beaver campus.

Research

Researchers ask miners to help spy fossil meteorites in coal mines

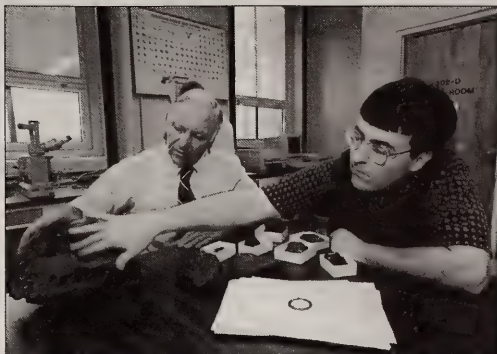
By ANDREA ELYSE MESSER
Public Information

Looking for a meteorite is like looking for a needle in a haystack. Looking for fossil meteorites, which fell in the distant past and are now embedded in sedimentary rock, is even more difficult, but researchers think they have a way to pare down the haystack.

"There are very few known fossil meteorites," Andrew A. Sicree, graduate student and curator of the Earth and Mineral Sciences Museum, said. "In collections worldwide, there are fewer than 20 meteorites that fell to Earth more than 2 million years ago. Many meteorites are recovered from Antarctica, but almost all fell in the last million years. If we could find a reliable source of old meteorites, they would begin to tell us something about our solar system in the distant past."

Sicree, David P. Gold, professor of geosciences, and Kevin Hoover of EES Environmental Group suspect that working coal mines might be the place to find fossil meteorites in good condition. Tramp-iron magnets already in use at coal mines could already be picking up iron meteorites, the researchers said.

Coal mines use large magnets to remove iron from the coal stream to pro-



David P. Gold, professor of geosciences, left, and Andrew A. Sicree, graduate student and curator of the Earth and Mineral Sciences Museum on the University Park Campus, examine a fossil meteorite. The two are researching the history of the solar system using information from the extra-terrestrial fossils.

Photo: Greg Grieco

tect equipment down the line. Most of the iron removed is from hardened steel tools that break or otherwise fall in with the coal. "We thought, maybe the magnets are already doing the job and we just don't know about it," said Sicree. "Hopefully, all we have to do is look in the tramp metal bins next to the magnets."

After they began visiting coal mines and talking to miners in Wyoming and

Montana, they realized that often there were no bins next to the magnets and the iron removed from the coal stream was immediately thrown out or, if it was stored, was not sorted before it was sent to a reclaimer.

"So far, no iron meteorites, or other types of meteorites have been found in coal mines," Sicree said.

"However, as we talk to miners and mine owners, they seem willing to save

whatever the magnets collect."

The researchers hope that miners and mine owners will send them any objects which are picked up by their tramp metal magnets, yet are obviously not man-made. To this end, the researchers are contacting mining professionals and distributing information, including a poster, on this project which is funded by NASA's Pennsylvania Space Grant Consortium.



Tips for winter driving

In 1995, The Milton S. Hershey Medical Center treated more than 1,100 adult and pediatric trauma injuries, 43 percent of which were due to motor vehicle collisions. The Penn State Coalition for Lifetime Injury Prevention (CLIP) at the medical center provides the following tips for winter driving conditions and to help prevent you from becoming a statistic.

- Always wear your seat belt.
- Make sure your mirrors and seat are positioned so you can see well.
- Check to make sure your mirrors and windshield are clear of frost, snow and dirt, and make sure the washer fluid is filled and wipers are in good condition.

- Leave enough time to get to your appointment. Don't be in a rush.
- Have an "emergency kit" in your car which includes: flashlight, flares, snacks, jumper cables, gloves, hat, blanket, boots, sand and a shovel so you're prepared if your car gets stuck.

- If you start to skid, pump your brakes. Or, if your car has an "Anti-Lock Brake System" (ABS) maintain continuous pressure on the brakes. In both cases, turn your car to follow the direction of the skid so you can maintain control.

A new tint to pest control

Research in the College of Agricultural Sciences credits colored plastic mulches with increasing crop yields, showing that plants like a little color in their lives. As it turns out, insects may be more likely to make a bee-line to tinted mulches as well.

This colorful research has particular implications for Pennsylvania's greenhouse vegetable growers, said Cathy Thomas, research assistant in horticulture. Thomas, who is in the preliminary stages of a three-year study, said growers may be able to use colorful mulches to better manage beneficial insects that prey on agricultural pests.

"In essence, the colored mulch works as a trap crop for pests," Thomas said. "The challenge in using any biological control is finding the pests so the predator can be introduced close to the infested area. You can make things easier for the bio-controls by using colored mulches to attract the pests to certain areas, making the placement of beneficial insects more effective."

The mulches benefit your garden in another way, as well. They prevent rapid evaporation, so you don't have to water as often.

Hershey involved in national robotics research

Penn State's College of Medicine at The Milton S. Hershey Medical Center is one of four institutions nationwide that will work with Computer Motion Inc. to help perfect the company's robotically-assisted microsurgery systems and participate in the studies necessary for the systems to receive Food and Drug Administration clearance. The robotic systems will be used in endoscopic cardiac surgery procedures to allow multiple vessel coronary artery bypass grafting through holes smaller than the diameter of a pencil.

Cardiovascular disease is the No. 1 cause of death in the United States and most industrialized nations.

More than 700,000 coronary bypass grafts and 200,000 heart valve replacements are performed annually worldwide. More than 99 percent of these procedures are performed as open-heart surgeries, requiring a patient's breast bone to be cut in half to allow access to the heart. This practice is necessary, as today's technology is not capable of supporting the clinical demands of a fully endoscopic surgical approach.

Computer Motion's robotically-assisted microsurgical systems enable surgeons to videoscopically perform delicate, precise surgical maneuvers through endoscopic ports. With the assistance of robot-

ics, new procedures will be able to be performed safely and with consistent high quality.

"With the advent of computer-controlled medical robotics, we now have a platform of technology that will enable us to devise innovative minimally-invasive procedures to reduce the complications and cost associated with these operations," said Dr. Ralph J. Damiano, chief of cardiothoracic surgery at The Hershey Medical Center.

Computer Motion, the world's leading supplier of medical robotics, also has partnered with the Cleveland Clinic, Sarasota Memorial Hospital, and Barnes Hospital, Washington University in St. Louis to study the device.

ATHLETICS

A regular column provided by Intercollegiate Athletics

New assistant coach

Former Nittany Lion tennis player **Chad Skorupka** has joined the Penn State staff as the assistant women's tennis coach.

Skorupka, a 1994 graduate of Penn State, was a tri-captain during his senior year (1993-94). Since graduating, Skorupka has been an assistant tennis professional in Lakewood, Ill., and was the coordinator for Play Tennis America in King of Prussia, Pa. Before joining the Lady Lion staff, Skorupka was the player development/district coordinator for the United States Tennis Association/Middle States Section in Indianapolis.

Directors' Cup

For the fourth consecutive year, Penn State is at or near the top in the Sears Directors' Cup survey through fall sports.

The Nittany and Lady Lions earned 277.5 points from the program's fall sports. Nebraska is the leader with 282 points, followed by Penn State, Notre Dame (256), North Carolina (233) and Stanford (232.5). The all-sports competition is presented by the National Association of Collegiate Directors of Athletics (NACDA) and *USA Today*. Standings for the Sears Directors' Cup will be updated follow the winter season and the 1996-97 champion will be announced in June.

Fiesta earns high rating

Penn State's 38-15 victory over Texas in the Tostitos Fiesta Bowl earned the third-highest television rating among all 1996-97 post-season contests: The Nittany Lions' sixth Fiesta Bowl victory in as many fights posted a 9.5 rating on CBS, topped only by the 17.9 rating for the Nokia Sugar Bowl and the 16.5 for the Rose Bowl.

Preseason recognition

The Penn State baseball team, which posted a 32-24-1 record in 1996 and won the Big Ten championship, has been recognized in Collegiate Baseball's 1997 preseason poll. Coach Joe Hindelang's Nittany Lions garnered a No. 34 ranking in the publication's "Fabulous 40" and are the highest ranked team in the Big Ten.

For the Record

The photo on page 9 of the Feb. 6 *Intercom* was misidentified. The picture was part of the "Recent Gifts and Acquisitions: Works on Paper" exhibit, which is on display at the Palmer Museum of Art on the University Park campus through June 15.



Snow business

Erica Bralis pelts Rob Williams with a snowball during the two students' winter battle behind the HUB parking deck on the University Park campus. This photo was taken by photojournalist Bryan Harkins, a student in Jack Lauterer's "Introductory to Photojournalism" class. The assignment was to capture a scene depicting the weather.

Road Scholars trip on horizon for May 12-13

New faculty at Penn State will soon receive invitations to take part in President **Graham Spanier's** second annual bus trip to sites around the Commonwealth, dubbed the Road Scholars Travel Seminar.

This year's trip, scheduled for May 12-13, will take two buses full of faculty who have been hired within the past two years to sites across western Pennsylvania. The travel seminar, which is free of charge to faculty, will include stops at several Penn State campuses and an overnight stay in the residence halls at one of the Pittsburgh-area campuses.

Other tentative stops include visits to a farm and one or more factories; meetings with legislators; dining with Penn

State alumni, business leaders and university donors; and stops at tourist attractions, such as a riverboat ride in Pittsburgh.

More details about the travel seminar will be included in upcoming issues of *Intercom*. If you have questions about the travel seminar you can contact **Melissa DeLong** at (814) 863-5117 or send an e-mail note to: msw7@cdc.psu.edu.

Spanier introduced the travel seminar last year and approximately 70 faculty from several Penn State campuses filled the two buses.

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Penn State alumnus is star One of film's first talking pictures found in Russia

BY KAREN WAGNER
Public Information

For almost 20 years they searched. Collectors and archivists were missing an important piece of film history—one of the first two talking motion pictures ever made, starring **Fred Waring** and his Pennsylvanians.

For **Peter Kiefer**, coordinator of University Libraries' Fred Waring collection and former Waring road manager, the missing piece left a noticeable void.

"We have just about everything else from his career," Kiefer said. Waring, who died in 1984, was an internationally known band leader and choral director and a Penn State alumnus.

Film star **Dorothy Lee** was also interested in finding a copy of "Syncopation." Besides starring in the film, Lee was a former Waring group member herself. Kiefer, who visited Lee in her San Diego home describes her as "a very vivacious, outgoing and attractive woman at 85 years old."

In 1929, RKO released the film "Syncopation," the first all-talking, all-singing motion picture in movie history. Produced before but released just after Al Jolson's "The Jazz Singer," the Waring movie was an instant hit. Aspiring dancers competed in local contests, hoping that they too might become "Syncopation girls."

Waring received top billing in the film, which also starred **Morton Downey Sr.**, **Barbara Bennett**, **Bobby Watson**, **Ian Hunter**, **Osgood Perkins** and **Lee**. Waring's Pennsylvanians and Dorothy Lee



Stepping lightly

Undergraduate student **Heather McGinnis** is poised to begin in **Vicky McGuade's** advanced ballet class in 108 White Building on the University Park campus. The class is part of the Dance Program offered through the Department of Kinesiology.

Photo: Greg Gnecco

■ Call for presentations

Penn State to be site of special diversity conference

Industry, labor and higher education are putting their heads together in a first-ever collaboration to identify best practices in diversity.

Provosts and vice chancellors at the Big 10 universities, CEOs of Fortune 1000 corporations and labor union leaders are planning a three-day working conference at The Penn State Scanticon in September to exchange practical strate-

gies on how to improve the work climate through diversity-related programming.

Academics and industry leaders nationwide have received a call for papers on how to develop effective ways to incorporate diversity into the fabric of corporate, labor and

Child care center to be built at Research Park

Penn State has signed a contract with **Children's World Learning Centers** of Golden, Col., to design, build and operate a child care and educational facility at the Research Park. Construction will begin soon and the facility is expected to begin operation in August.

"Children's World has designed and constructed nearly 400 child care centers and operates more than 500 nationally," Billie S. Willis, assistant vice president for Human Resources, said. "We look forward to our collaboration with Children's World, which will provide opportunities for both quality child care as well as academic research."

The 13,000-square-foot facility will be built next to The Penn State Scanticon and is expected to provide care for approximately 200 infant to school-age children.

According to Children's World Learning Centers, its mission is to provide children with a nurturing environment where individual talents are allowed to flourish and grow. Included in its approach to providing quality child care is the use of developmentally appropriate educational programming, which allows each child to succeed at his or her own pace.

Other child care programs at the University Park campus include the center at Cedar Building and the College of Health and Human Development Child Development Laboratory in Henderson Building. The University also manages the Imagination Station Child Care Center at CATO Industrial Park in partnership with Arc of Centre County.

For more information, contact **Linda Pierce**, coordinator of the Work/Life Programs in the Office of Human Resources, at (814) 865-5886.

See "Waring film" on page 3

See "Conference" on page 2

Inside



Computers galore!

More than 200 computers will be set up in a new computer lab at Pollock Library on the University Park campus. For details, see page 2.



Shakespearean science

A Penn State astrophysicist has found astronomical meaning in Shakespeare's "Hamlet." For details, turn to Focus on Research, page 11.

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More is better when it comes to computers

It's always fun to get a package, but when you get 202 computer packages in a day, that's news. On Tuesday, Feb. 18, two truckloads of computers arrived at the Pollock Undergraduate Library, and were hoisted by crane through a hole in the side of the building and stacked ready to be installed in Penn State's newest student computer lab.

"We are always upgrading computer services for students, but this new lab is going to be a wonderful addition," said James Kerlin, deputy director of the Computer Center.

The new lab will have 66 Macintosh computers and 144 IBM computers with four IBM and four Mac computers equipped for multimedia creation in two rooms set up for collaborative learning so students can work together on class projects. One collaborative room will be dedicated to Macs and one to IBMs. Desks around the sides of the main room will be equipped with Ethernet ports to allow students to plug their own lap-

tops directly into the Pollock Lab LAN and access the University computer backbone (and hence the entire Internet). In the Fall of 1996, the Mac lab on the first floor was converted to a dual function IBM lab/seminar facility.

Scheduled to open in April — just in time for final projects and papers — the lab will be available to all Penn State students with a computer access account, including those who live both on and off campus, as well as those from other campuses. Alan Williams, CAC director of distributed computing, said,

The new lab will have two computer consultant areas with at least one consultant scheduled on duty 24-hours a day, seven days a week. Student rovers will also check laboratory equipment on a regular basis. Currently 13 of the 28 CAC computer laboratories have consultants on duty during peak hours, but the Pollock Lab will be the first with continuous consultant assistance.



Wires first, then computers

Jim Johnson, front, and Dale Hemmings install wiring for computers at Pollock Library on the University Park campus. The second floor of the library houses a new computer lab.

Photo: Greg Grieco

This is cooperative initiative spanning several departments and budgets. The cost of the computers will be covered by the student computer fee.

By April, students will have access to about 1400 CAC computers in labo-

ratories across campus in addition to about 2100 computers in now in college and departmental labs.

For more information, contact Kerlin at (814) 863-0421, or Williams at (814) 865-4760.

College of Agricultural Sciences to have new dean as of July 1

Robert D. Steele, associate dean for research in the College of Agricultural and Life Sciences and executive director of the Wisconsin Agricultural Experiment Station at the University of Wisconsin-Madison, has been named dean of the College of Agricultural Sciences, effective July 1. Formal approval will be taken up by the Board of Trustees at its March 21 meeting.

"Dr. Steele is an accomplished administrator known nationally for his research in nutritional sciences, and we are very pleased that he will join Penn State as dean of one of our key colleges," said President Graham B. Spanier. "He has a proven track record in the integration of teaching, research and service, and we look forward to working with him."

As associate dean since 1993, Steele is responsible for the day-to-day operation of the research division, administering approximately \$70 million of research activity from federal, state and private sources encompassing nearly 600 projects by 300 research faculty in 22 departments and numerous centers. He also has overall responsibility for the operation of 13 research stations throughout the state of Wisconsin, and administers a \$4 million internal competitive grants program. He served as acting associate dean for the 1991-92 academic year.

Among his initiatives as associate dean have been the development of a Research Advisory Council to recommend policy and review processes for research proposals, the development of a home page and a database for the college.

His principle areas of research include amino acids; nitrogen and sulfur metabolism in liver disease; interactions of retinol and one-carbon metabolism; blood-brain barrier transport of nutrients; and ethionine hepatotoxicity. His more than 50 articles have been published in such journals as *Biochemical Pharmacology*, the *Journal of Nutrition* and the *American*

Steele has been a professor in the Department of Nutritional Sciences since 1987, where he teaches both graduate and undergraduate programs in nutritional sciences as well in the Biocore and Ways of Knowing programs. He helped develop the Interdepartmental Graduate Program in Nutritional Sciences, worked toward integrating research and undergraduate programs and served as chair of the departmental Graduate Admissions Committee.

Before joining the University of Wisconsin-Madison in 1982 as an assistant professor, Steele was an assistant professor of nutrition at Rutgers University from 1978 to 1982. He received his B.S. in nutritional sciences and his M.S. in biochemistry and nutrition from the University of Arizona in 1970 and 1973, respectively, and his doctorate in nutritional sciences from the university of Wisconsin-Madison in 1978.

Among his awards are the Bio-Serve Award for Experimental Nutrition from the American Institute of Nutrition, and a New Investigator Research Award from USPHS.

He is currently a member of the North Central Regional Research Committee, responsible for review of all Hatch regional research projects; chair of the ESCOP subcommittee on human nutrition, and member of the Board of Scientific Advisors for the American Council on Science and Health.

Steele also has served as institutional representative to such boards as the National Agricultural Biotechnology Council and the Agricultural Research Institute; was conference chair of the Ross Laboratories 12th Nutritional Conference on Medical Issues and co-chair of the A. E. Harper Symposium on emerging aspects of amino acid metabolism. He is a member of a number of professional societies such as the American Farmland Trust, American Society for Biochemical and molecular biology and American Institute of Nutrition, among others and as such has served on numerous committees for

Conference

continued from page 1

institutional organizational structures. Members of the Penn State community are invited to submit a presentation proposal for the September conference, "Best Practices in Diversity: Exploring Practical Applications for the 21st Century," planned for the University Park campus.

Topics for presentation can include policy, institutional and organizational philosophy and administrative initiatives on ethnic and racial diversity, gender, disability issues, international and cross-cultural issues, gay, lesbian and bisexual issues and age.

Specifically, planners of the Sept. 18-20 conference are looking for such practical applications — what works and what doesn't work — as hiring, retention and promotion practices, diversity training and programming initiatives and industry expectations of college graduates. The conference will address a wide spectrum of areas including ethnic and racial diversity; gender; disability issues; international and cross-cultural issues; gay, lesbian and bisexual issues; and age.

Those who want to participate in the conference will be able to register in March. In addition to keynote speeches, panel discussions and roundtables, there will be up to 45 interactive workshops and discussion groups over the three days that deliberately mix and match participants from labor, industry and education. Reservations will be restricted to about 300 to 400 participants.

Presentation proposals, including a one-page summary, are due March 1 and authors will be notified by May 1. For more information, visit the Best Practices in Diversity Web site at <http://www.cde.psu.edu/C&I/BestPracticesinDiversity/> or contact Marc Levey, Office of the Vice Provost for Educational Equity, at (814) 863-2294 or by e-mail at MBL1@psu.edu.

Waring film

continued from page 1

made the film in a Brooklyn studio at the same time they were appearing in the Broadway show "Hello Yourself!"

Syncopation's plot revolves around two vaudeville dancers barely getting by when a savvy entrepreneur invites them to join his dance club band played by Fred Waring's Pennsylvanians. Fortunes are won and lost and won again in a film best noted for its sound quality, even 68 years later.

Kiefer stayed in contact with Lee and her two sons, who continued looking for the film.

"Among us, we thought we had exhausted every lead," Kiefer recalled. They had searched the Library of Congress, the American Film Institute at UCLA, Turner Broadcasting archives among others, but found no prints.

Kiefer had all but given up hope when Lee phoned in December with good news. A copy of the film had been located in Russia by James Cavallo, a

San Diego film buff and Dorothy Lee fan. Cavallo discovered that the Gosfilmofond of Russia, a film library in Moscow, contained a copy of "Syncopation." With some difficulty overcoming the language barrier, Cavallo verified that the Russian copy was an unaltered 1929 original and not the 1940 remake.

Lee told Cavallo of Penn State's interest in the film and Cavallo forwarded a copy to Kiefer at no charge. Penn State's University Libraries is still interested in obtaining an original print and may at some point query the Gosfilmofond of Russia about their interest in selling the original.

A 20-year search has ended and a famous piece of film history is restored. Thanks to some persistent sleuthing, the mystery has been solved. Fans and film buffs in the U.S. can enjoy one of the few surviving copies of a Fred Waring original and one of the first two motion pictures recorded with sound.

While there are no plans at present to re-release the video, the tape is available for viewing in VHS format. For more information, contact Kiefer at (814) 863-2911.



Good old days

Fred Waring and Syncopation in 1928.

Photo: Courtesy of the University's Fred Waring Collection

Parting

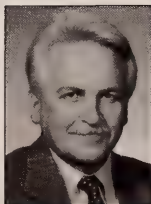
Manager retires after 30 years of service

Thomas W. Seiler, facilities services manager with Continuing and Distance Education, retired after 30 years of service to the University.

Seiler came to Penn State as a student and continued to take courses in management throughout his career. In 1966, he accepted a position as a senior clerk in the Department of Production Stores in Keller Building. That department changed its name and functions over the years, eventually becoming facilities services as Seiler became supervisor, then manager of the operation.

"The most satisfying part of my work at the University was the last two years when I coordinated the renovation of Keller Building and commissioned the mural depicting the history of C&DE at Penn State," Seiler said.

Seiler now resides in Cooper City, Fla., with his partner, Jonathan Tubman, an associate professor at Florida International University. After an extended "vacation" learning to play golf, he plans to resume working for another 10 years, drawing on the experience he gained during the Keller renovation.

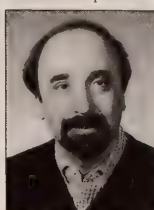


THOMAS W. SEILER

Appointments

Department of Biology names new head

William R. Jeffery, professor of biology, is the new head of the Department of Biology, succeeding



WILLIAM R. JEFFERY

Robert Mitchell, professor of biology, who has served as interim department head since April 1995.

Jeffery, who previously was a professor of molecular and cellular biology at the University of California at Davis, has research interests in gene regulation during embryo development, RNA localization during development, the evolution of develop-

mental mechanisms and molecular evolution. He is setting up a laboratory at Penn State to house six endangered populations of eyeless cave fish that evolved in isolation from each other during the past 100,000 years. Jeffery plans to study the evolution of eyelessness. He also is known for his research on the development of the ascidian (sea squirt).

Jeffery earned his bachelor's degree in biology at the University of Illinois in 1967, his doctoral degree in cell and developmental biology at the University of Iowa in 1971, and completed two postdoctoral positions in molecular biology, one with the McArdle Laboratory for Cancer Research at the University of Wisconsin at Madison from 1971 to 1972, and one with the Department of Biochemistry and Pharmacology at Tufts University School of Medicine in Boston from 1972 to 1974.

After completing his postdoctoral work, he joined the University of Houston in 1974 as an assistant professor and, in 1977, moved on to the University of Texas at Austin. After a series of promotions, he was named Johann Friedrich Miescher Regent's professor of molecular biology in 1987, a position he held until 1990. Jeffery then joined the University of California at Davis, where he served as professor in the Department of Zoology until 1993, when he became a professor of molecular and cellular biology in the Division of Biological Sciences and the Bodega Marine Laboratory. He also was a visiting professor in the Department of Cell Biology at Vanderbilt University School of Medicine from 1995 to 1996.

He is a Fellow of the American Association for the Advancement of Science, a member of Sigma Xi, and a member of the American Society for Cell Biology. He was president of the Society for Developmental Biology from 1995 to 1996 and a member of its board of trustees from 1986 to 1990 and from 1994 to 1997.

Jeffery has received numerous honors including the American Society of Zoologists Outstanding Service Award in 1990. He is a member of the editorial boards of nine scientific journals and is the author or coauthor of more than 115 published scientific research papers.

LECTURES

Science talk uncovers our past through bones

"On Becoming Human" is the topic of the spring semester 1997 Penn State Lectures on the Frontiers of Science. Designed for the enjoyment and education of central Pennsylvania residents, the lectures take place on six consecutive Saturday mornings from 11 a.m. to noon on the University Park campus.

The fifth lecture in the series, "Behavior from Bones: The Diet, Locomotion and Sex Lives of Our Ancestors," will be given on Feb. 22 by **Alan Walker**, distinguished professor of anthropology and biology, in 101 Thomas Building. Walker is one of the world's foremost experts on the evolution of primates and humans. He will discuss the methods by which we can determine some of the behaviors and life-history strategies of early humans and their extinct relatives and will show how old some of our own behaviors are.



ALAN WALKER



The remaining event in the spring 1997 Penn State Lectures on the Frontiers of Science is on March 1: "The Evolution of the Mind: Speculations from Contemporary Biology Based on the Musings of a Young British Victorian Naturalist," by **Jeffrey A. Kurland**, associate professor of anthropology and human development at Penn State, in 111 Warkik Laboratory.

Parking is available at the HUB Deck parking garage on Shortridge Road. For more information, contact the Eberly College of Science at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.

Australian multiculturalism to be topic of Feb. 24 talk

James Jupp, director of the Centre for Immigration and Multicultural Studies in the Research School of Social Sciences at the Australian National University in Canberra, Australia, will present a seminar titled "The Debate Over Australian Immigration and Multiculturalism: From 'White Australia' to the Challenge of Diversity" at 11:45 a.m. Monday, Feb. 24, in 406 Oswald Tower on the University Park campus. Educated at the London School of Economics and the University of London, Jupp has held a number of government and academic positions having to do with Australian immigration. He was general editor of the *Bicentennial Encyclopedia of the Australian People*, a member of the Adv-

sory Council on Multicultural Affairs, chairman of the government-related "Review of Migrant and Multicultural Programs and Services," and a member of the planning and steering committee for the Global Cultural Diversity conference held in Sydney in 1995. Jupp has published widely on immigration and multicultural affairs. His most recent book is the 1996 volume *Understanding Australian Multiculturalism*.

The lecture, which is open to the public, is being co-sponsored by the Australia-New Zealand Studies Center and the Population Research Institute. For more information, contact **Pat Corbett** at e-mail pac@psu.edu; or by phone at (814) 863-1603.

Learn about sports in black America

Discover the sporting world that black America created on its own before integration when **Robert Ruck**, adjunct professor of history at the University of Pittsburgh, presents "Kings on the Hill: Baseball's Forgotten Men," a lecture at 1 p.m. Wednesday, Feb. 26, in Penn State Berks campus' Room 101.

In a presentation that includes segments of "Kings on the Hill," an Emmy-winning documentary about the Negro Leagues, Ruck will focus on Pittsburgh, the center of black baseball in the 1930s and 1940s. He will analyze what was lost when Jackie Robinson integrated the major leagues in 1947 and the Negro League disappeared.

Engineer and educator to speak on "biosoma"

George Bugliarello, a distinguished engineer and educator, will present a public lecture titled "Biology, Society and Machines: The Biosoma Issues," at 7 p.m. Tuesday, Feb. 25, in Room 26 of the Mineral Sciences Building on the University Park campus as part of the STS Distinguished Speaker Series.

"Biosoma" is Bugliarello's word for the interaction among biology, society and machines, an interaction which he feels will shape our future. He will discuss these complex interactions and how they will influence the pure evolution of society.

Bugliarello is chancellor of Polytechnic University and previously served as president of that university from 1973-1994. He has a broad background ranging from fluid mechanics to computer languages, biomedical engineering and science policy. Bugliarello holds a doctor of science degree in engineering from the Massachusetts Institute of Technology, and was awarded honorary degrees from Carnegie Mellon University, the University of Trieste, the Milwaukee School of Engineering, the Illinois Institute of Technology and Pace University.

Bugliarello is the first speaker in a new series of distinguished lectures sponsored by Penn State's Science, Technology and Society (STS) Program. For more information about this speaker or the seminar series, contact **Hector Flores**, director of the STS Program, at (814) 865-3043.

Baseball Hall of Famer coming to University Park

Hall of Famer **Jim Palmer** is coming to University Park on Thursday, Feb. 27, to speak in Schwab Auditorium at 8 p.m. The free presentation, which will focus on motivation, is part of the Distinguished Speaker Series.

Palmer's strong beliefs in motivation and persistence have propelled him through his life. In 1990, he was awarded baseball's highest honor by being elected into the Baseball Hall of Fame in his first year of eligibility. He received 92.6 percent of the vote and is the only American League Hall of Fame pitcher to win the Cy Young Award three times, as well as four Gold Glove Awards.

At 18, Palmer signed a \$50,000-bonus contract with the Baltimore Orioles, which brought him to immediate superstar status. He stayed with the Orioles for his entire 21-year career.

Since his retirement in 1984, Palmer has kept busy as a commentator on radio and TV. There will be an autograph session after the presentation.

Harrisburg presentation about impact of welfare reform

The federal government recently made changes in the nation's 60-year-old welfare system that gave individual states freedom to experiment with their own welfare programs.

A March 11 Penn State Harrisburg Eastgate Center presentation by associate professor of finance **Jacob DeRooy** will focus on the impact of welfare reform on employment and earnings of welfare recipients. DeRooy's noon to 1 p.m. presentation is the latest installment in the yearlong Current Issues in Business lecture series coordinated by the Penn State Harrisburg School of Business Administration. The lecture is free to the public. For registration or information, call (717) 772-3590.

Among the questions DeRooy will address in his lecture are: what economic hardship, if any, is likely to result from reform; will welfare reform increase the supply of workers in the job market; how effective are employer subsidies for creating jobs for welfare recipients; and what have we learned from innovative programs in Wisconsin, North Carolina and Washington.

LGB workshop focus is on lesbians, gays in classroom

"Gay, Lesbian and Bisexual Issues in the Classroom," a workshop set for March 24, will focus on both pedagogical and curricular issues related to gays and lesbians in the classroom and will cover the connections between sexual orientation and other diversity issues (including race, gender, social class and ability/disability).

Facilitated by **Elizabeth J. Tisdell** of Antioch University in Seattle, the workshop will begin at 1 p.m. in the HUB Gallery Lounge on the University Park campus and will last until 4 p.m. In the first half of the workshop, several different models of curriculum integration will be presented and discussed. The second half of the session will focus on issues of the group process and how to deal with potentially controversial issues in the learning environment. This participatory workshop is designed for faculty, graduate students and others interested in these issues. Participants are encouraged to bring syllabi and classroom incidents based on their own experiences in teaching about these issues.

To register for this workshop, sponsored by the Commission on Gay, Lesbian and Bisexual Equity, the colleges of Education and Health and Human Development, the Affirmative Action Office, the Division of Undergraduate Education and Residence Life, contact **Julie Acker** at ja10@psu.edu.

More Lectures

Cognitive psychologist's lecture centers on memory formation

Elizabeth F. Loftus, a cognitive psychologist who has specialized in the reliability of eyewitness testimony and repressed memories and has provided expert testimony in many high-profile legal cases, will deliver the inaugural Herschel W. and Eileen Wirtshafter Leibowitz Lecture in Behavioral Sciences in the College of the Liberal Arts.

The lecture, to be held at 8 p.m. Thursday, March 20, in 112 Kern Building on the University Park campus, will center on new studies that show the power of imagination to make people believe they have had experiences they didn't have. Loftus is professor of psychology and adjunct professor of law at the University of Washington, Seattle. She received her Ph.D. in psychology from Stanford University. Since then, she has published 18 books and more than 300 scientific articles. Her fourth book, *Eyewitness Testimony*, won a National Media Award (Distinguished Contribution) from the American Psychological Foundation. Her most recent book, *The Myth of Repressed Memory*, co-authored with Katherine Ketcham, was published by St. Martin's Press and has already been translated into a number of foreign languages.

Loftus has been an expert witness or consultant in hundreds of cases, including the McMartin Preschool molestation case, the trial of Oliver North, the trial of the officers accused in the Rodney King beating, the Menendez brothers and the Oklahoma bombing litigation. Her research over the last 20 years has focused on human memory, eyewitness testimony and courtroom procedure. She has won numerous accolades, and in 1995 was selected by the American Academy of Forensic Psychology to be the recipient of their Distinguished Contributions to Forensic Psychology Award.

The Leibowitz lectureship, named in honor of Herschel W. Leibowitz, Evan Pugh professor emeritus and member of the faculty in the Department of Psychology, and his wife, Eileen, who established an endowment for the lectureship in the College of the Liberal Arts, will present speakers on interdisciplinary topics in the behavioral sciences in recognition of Professor Leibowitz's distinguished contributions in psychology and Mrs. Leibowitz's long-standing commitment to development at Penn State. The lecture is open to the public.



ELIZABETH F. LOFTUS

Paul Robeson Jr. to speak at center's 25th anniversary gala

The opening event in the 25th anniversary celebration of Penn State's Paul Robeson Cultural Center this spring will be a public lecture by Paul Robeson Jr., at 4:30 p.m. Sunday, Feb. 23, at the center. A reception will follow.

Son of one of the most remarkable men in American history, Robeson will talk about his father's life and legacy using slides, film and tapes. He worked closely with his father for 16 years as his representative and adviser. Since his father was frequently refused access to recording studios and concert halls during the 1950s, the younger Robeson produced, recorded and edited many of his recordings, some of which have been released on major record labels.



PAUL ROBESON JR.

Paul Robeson (1898-1976) was a legendary star of concert halls and screen, and known for such movies as "Emperor Jones," (1933), "Jerico," (1937) and "Proud Valley," (1940). He also was a scholar, college athlete and is perhaps best known as a civil rights activist in the 1950s and 1960s.

The younger Robeson is the founder and president of the Paul Robeson Archives and lectures widely in the United States and abroad on American and Russian history and sociology as well as on the life and achievements of his father.

He is author of *Paul Robeson Jr. Speaks to America*, which focuses on recent controversies about multiculturalism, and *The Secret War Against Paul Robeson*.

Learn how to protect drinking water

Few topics are as important to our communities as protection of drinking water source areas. "Tools for Drinking Water Protection" is a national teleconference scheduled for 2-30 to 4 p.m. Wednesday, March 19, in Studio D, Mitchell Building on the University Park campus. This live satellite broadcast with the country's top water protection experts also will be available on the Penn State cable channel 9 at University Park, which will allow student groups and classes to view the program.

The program will consist of rural, urban and suburban cases. Topics to be addressed include land use decisions, water quality monitoring and planning for emergencies. The overall goal of the broadcast is to convey strategies to communities for establishing drinking water protection programs.

The experts, who will be available live during the teleconference to answer questions from local groups, are: Douglas Hall, director of Dayton, Ohio, Environmental Management, which spearheaded

development of the Well Field Protection Program; Ken Lustig, director of environmental health for Coeur D'Alene, Idaho, where he coordinates the Rathdrum Aquifer project; and John Witten, project manager with the Environmental Protection Agency, who developed strategies for guiding land development to protect wetlands, estuaries and coastal waters. Local experts Caren Clouty, professor of forestry, and Neil Korostoff, associate professor of landscape architecture and a member of the American Society of Landscape Architects, will be available in Studio D to discuss issues with the local audience when the satellite portion is complete.

There is no charge for attendance in Studio D, but seating is limited. Room 106 in Rouse Building is also reserved. To reserve a seat, please call the League of Women Voters at (814) 867-0106 or Carol Hodes at (814) 865-7679. "Tools for Drinking Water Protection" is being underwritten by the EPA.

Choreo-poem reading set for March 19

The author of the acclaimed choreo-poem, "for colored girls, who have considered suicide/when the rainbow is enuf," Ntozake Shange, will present a dramatic reading at the Penn State Harrisburg campus of the Capital College on March 19. Shange, one of America's most lyrical black voices as a playwright, novelist, poet and performer, will appear at 7 p.m. in the college's Student Center in the Capital Union Building.

Widely acclaimed as a representative for blacks, women and all struggling to find their own voice, Shange has earned countless awards for her works, which include three novels, several books of poetry and many plays. She burst onto the New York literary scene in 1976 with her innovative and widely acclaimed "for colored girls ...," which became a best-selling book and later won critical acclaim in a television version for PBS. She received an Obie Award off-Broadway for "for colored girls ...," which also received a Tony nomination after enjoying a lengthy stint on Broadway. With *Liliane*, her newest and most provocative novel, she continues

to explore the female intellect and sensuality by weaving together love, self-discovery, sex and race.

Shange, 46, garnered much from her childhood experiences in segregated St. Louis to create *Liliane*, who fights to maintain control of her life in spite of the "constant and random interruptions of white people as an abstract idea or in person."

An educator as well as an author, she has taught courses in the literature of people of color, feminist, aesthetics and writing and performance art at Rice University, Villanova University and the Maryland Institute of Art. As the Taos Heavyweight Poetry Champion of the World for three consecutive years, she continues to produce theatre pieces and do poetry readings and guest lectures. She is currently working on a project for HBO about the history of jazz.

The March 19 performance is open to the public and is sponsored by the Penn State Harrisburg Student Activities Office and its Women's Studies and Women's programs. For information, call (717) 948-6273.

The Arts

AT PENN STATE

Special exhibit

The HUB's Art alley exhibits an "International Festival" through April 6.

An annual event sponsored by the Office of International Programs, the exhibit features the art from many countries and cultures. Penn State international students share their native art with the community and the exhibit accompanies the International Festival, which runs through Feb. 27 on the University Park campus.

A Raisin In The Sun

The Penn State University Resident Theatre Company will present Lorraine Hansberry's highly acclaimed drama, *A Raisin In The Sun*, on the University Park campus. The play will open in the Playhouse Theatre on Friday, Feb. 21, and will run through Saturday, March 1, with student previews on Wednesday, Feb. 19, and Thursday, Feb. 20.

The play features Frances Foster as Mama Foster, a member of the original Broadway production, received the 1985 Obie Award for Sustained Excellence of Performance.

A Raisin In The Sun is directed by Charles Dumas, associate professor of theatre arts.

For tickets, call the Arts Ticket Center at (814) 863-0255. For the evening performances, tickets are \$10, non-students; \$8 students. For matinees: \$9 non-students; \$7 students. Tickets for the student previews, with ID, are \$6.

"Schoolhouse Rock"

The Penn State Thespians will present "Schoolhouse Rock, Live!" in Kern Graduate Commons Auditorium at 8 p.m. Thursday, Feb. 20, and Friday, Feb. 21, and again Saturday, Feb. 22, at 2 and 8 p.m. on the University Park campus. All tickets are \$4.75 and may be purchased through the thespian box office across from the HUB desk or at the door.

"Schoolhouse Rock Live!" is the stage adaptation of the Saturday morning TV show that aired between 1973 and 1985. For more information or to reserve tickets, call (814) 865-9461.

Orchestra of China

On Saturday, Feb. 22, at 8 p.m., the Center for the Performing Arts will present the 95-member National Traditional Orchestra of China at Eisenhower Auditorium on the University Park campus.

In its first American tour, the orchestra brings together Beijing's foremost exponents of traditional music.

Tickets are available through the Arts Ticket Center in Eisenhower Auditorium. Tickets also may be purchased by phoning, (814) 863-0255.

Student organ recital

Ten students from the organ studio of June Miller, associate professor of music, will perform in a free 2 p.m. recital on Sunday, Feb. 23, in the College of Art and Architecture's School of Music Recital Hall on the University Park campus.

Voice and piano recital

Michael C. Rider, tenor, and Matthew Doebler, pianist, will present a free recital at 2 p.m. Sunday, Feb. 23, in room 122 of Music Building II on the University Park campus. Rider is a student of Susan Boardman, associate professor of music, and Doebler is a student of Marylene Dosse, professor of music.

"CATS" at Penn College

"CATS," one of the most successful musicals in all of Broadway history, will see its road company return to the Community Arts Center stage in Williamsport for three performances this month. Evening performances are set for Tuesday, Feb. 25, and Wednesday, Feb. 26, at 7:30 p.m., and a special Wednesday matinee at 2 p.m. The center is part of the Pennsylvania College of Technology.

Tickets are priced between \$27.50 and \$45.50. For more information, please call (717) 326-2424.

Bach's Lunch

The Hi-Lo's from the Penn State Glee Club, directed by Bruce Trinkley, associate professor of music, will perform at the free Bach's Lunch concert at 12:10 p.m. Thursday, Feb. 27, in the Helen Eakin Eisenhower Chapel on the University Park campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

Audience members may take a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Philharmonic potpourri

The Penn State Philharmonic, under the direction of Pu-Qi Jiang, will feature the winners of the student competition at 8 p.m. Friday, Feb. 28, in Eisenhower Auditorium on the University Park campus.

The winners include Louis Hodgson, flute; Matthew Shaw, baritone;



Lunchtime entertainment

Urban Fusion, featuring Andrew Jackson on drums, Brian Watson on saxophone, Tommy Wareham on piano and guitar, and Tom Jordan on bass, played for the lunchtime crowd at the Kern Graduate Center on the University Park campus. The performance, "A Tribute to Black Music," was part of the celebration of Black History Month.

Photo: Greg Gienio

Seong-Ae Lim, piano; and Fouad Fakhouri, composition. During the performance, Fakhouri's winning composition "Beneath the Rubble" will be given its world premiere. Gregory Woodbridge, a master's student of Jiang, will be a guest conductor.

Tickets for the performance are \$4 for non-students, \$2 for students, and are available at the Arts Ticket Center.

Undergraduate exhibition

The School of Visual Arts Undergraduate Juried Exhibition opens today in the Zoller Gallery in the Visual Arts Building on the University Park campus.

Gerald Haggerty, an art critic and educator working and residing in New York City, is the juror for this year's exhibition. The Undergraduate Juried Exhibition is an annual event, showcasing the best of undergraduate work in visual arts.

The free exhibition continues through March 23.

"Appalachian Year"

"Appalachian Year," a collection of paintings by an award-winning artist who is a native of South America, will be on exhibit in the Gallery Lounge at the Penn State Harrisburg campus of the Capital College through March 24.

L. Beatriz Arnillas, who earned a master's of fine arts degree from the University of Kentucky, incorporates art work from three consecutive periods of her life for this show. Arnillas was born and raised in Peru, where her family resided until 1986 when they emigrated to the United States. Her work represents her feelings and experiences from life in both Peru and the United States.

Odyssey on WPSU

Susan Harris of the Department of English discusses her newest book, *The Courtship of Olivia Langdon and*

Mark Twain, on the next episode of *Odyssey through Literature*. Harris has a unique way of using people's diaries, letters and the books they read to interpret the world they lived in. She and series host S. Leonard Rubinstein devote a portion of their discussion to comparing Olivia Langdon's and Mark Twain's very different views on Shakespeare's "The Merchant of Venice."

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM, from University Park, 106.7 FM in Altoona and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://www.library.psu.edu/compil/odyssey/odyssey.htm>.

Exhibit focus is diversity

"What is Diversity?," a three-part exhibit on display in the East Corridor Gallery of Pattee Library until the end of spring semester, includes profiles of University Libraries employees and features items in four of the Libraries' collections. Also showcased are the services provided by the Libraries to connect patrons with the information they seek.

The exhibit was designed by cataloging assistant Jeff Edmunds in collaboration with the Libraries' Diversity Committee and with assistance from faculty and staff in Microforms, the Education Library, Historical Collections and Labor Archives, the Rare Books Room, Libraries Services for People with Disabilities, Interlibrary Loan, the Arts Library, Maps, Facilities Planning and Maintenance, Preservation, and Public Information and Relations. In addition, a World Wide Web version of the exhibit designed by Wilson Hutton is available at <http://www.libraries.psu.edu/pubinfo/dlto/exhibit.html>.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, February 21
Kern Graduate Commons, noon, Kern Lobby.
Concert "Susan & Andy."

■ International Coffee House, 7 p.m., HUB Ballroom. "The Penn State International Dancers."

University Resident Theatre Company, 8 p.m., The Playhouse. "A Raisin in the Sun," by Lorraine Hansberry, directed by Charles Dumas, through March 1. For tickets, phone (814) 863-0255.

Saturday, February 22
■ Penn State Filipino Association, 5 p.m., 102 Kern. "Barrio Fiesta." For tickets, phone (814) 867-7166 or (814) 234-6267. School of Music, 5 p.m., Recital Hall. Student Recital presents Andrea Henry Horn.

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "National Traditional Orchestra of China." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Jeannie Ohnemus, cello.

Sunday, February 23
Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents "Painting by The Eight" at the Palmer Museum," by Robin Seymour.

School of Music, 2 p.m., Recital Hall. Student Recital presents an organ studio recital. School of Music, 2 p.m., 122 Music II. Student Recital presents Michael Rider, voice.

Monday, February 24
School of Music, 8 p.m., Recital Hall. Faculty Recital presents Lisa Brongher, horn.

Tuesday, February 25
School of Music, 8 p.m., Eisenhower Auditorium. "German Family Names in America," with Dennis Glocke and O. Richard Bundy, conductors.

Wednesday, February 26
School of Music, 8 p.m., Recital Hall. Symphonic Wind Ensemble with Dennis Glocke, conductor.

Center for Women Students, 8 p.m., 112 Kern. Performance artist Nancy Hulse presents "That Ain't No Way to Treat a Lady."

Thursday, February 27
■ B'nai B'rith Hill Foundation, 7:30 p.m., Palmer Lipson Auditorium. Film titled "Eastern Wind-Hamsin."

■ Brazilian film titled "Quilombo," 7:30 p.m., Paul Robeson Cultural Center.

Friday, February 28
Kern Graduate Commons, noon, Kern Lobby. Concert titled "Appalachian Spring." School of Music, 8 p.m., Eisenhower Auditorium. Philharmonic Student Concertos with Pu-Qi Jiang, conductor.

Saturday, March 1
Center for the Performing Arts, 8 p.m., Schwab Auditorium. "Los Angeles Piano Quartet." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Amanda Silker, voice.

Sunday, March 2
School of Music, 2 p.m., Recital Hall. "The Armstrong Flute & Percussion Duo" with Eleanor Armstrong, flute, and Dan Armstrong, percussion.

■ Palmer Museum of Art, 2 p.m. Gallery Talk presents Katherine Bentz on "Italian Baroque Painting at the Palmer Museum." School of Music, 8 p.m., Recital Hall. Student Recital presents Kyle Glaser and Sue



At the Palmer

"Capturing the Light: A Selection of 20th-Century American Watercolors" by Winslow Homer, is on display at the Palmer Museum of Art on the University Park campus through May 18.

Keamey on the saxophone.

SEMINARS

Friday, February 21
Economics, 3:30 p.m., 420 Kern. Kyle Bagwell on "Reciprocity, Non-discrimination and Preferential Agreements in the Multilateral Trading System."

Philosophy, 4 p.m., 124 Sparks. Vincent Colapietro on "Reconfiguring Need and Desire: Dewey in Light of Lacan."

■ Geography, 4 p.m., 26 Hosier. Anthony Cohen on "The Underground Railroad Walk to Canada."

Saturday, February 22
Science, 11 a.m., 101 Thomas Building. Alan Walker on "Behavior from Bones: The Diet, Locomotion and Sex Lives of Our Ancestors."

Sunday, February 23
Paul Robeson Cultural Center 25th anniversary celebration, 4:30 p.m., Cultural Center. Paul Robeson Jr. to speak.

Monday, February 24
■ Australia-New Zealand Studies Center and The Population Research Institute, 11:45 a.m., 406 Oswald Tower. James Jupp on "The Debate over Australian Immigration and Multiculturalism: From 'White Australia' to the Challenge of Diversity."

■ Continuing and Distance Education and the College of Education's Adult Education Program, 11:45 a.m. to 1 p.m., 502 Keller. David Lewis on "Continuing Professional Education in Great Britain."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Jim Hill on "Engineering Opportunities in Precision Agriculture."

Gravity Center, 2 p.m., 339 Davey Laboratory. L.S. Frinn on "Gravitational Radiation, Binary Inspiral and Cosmology."

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Dan Lenosi on "cc-NUMA and Origin 2000 Architecture."

■ History, 4 p.m., 102 Weaver. Michelle Mart on "Constructing a Universal Ideal: Antisemitism, American Jews and the Founding of Israel."

Computer and Engineering, 4 p.m., Paul

Plasman on a subject to be announced.

Tuesday, February 25
Food Science, 10:30 a.m., 120 Barbara Building. Syed Rizvi on a subject to be announced.

Physics, 3:30 p.m., 339 Davey Laboratory. Mirjam Cvetc on a subject to be announced.

Nutrition, 4 p.m., S-209 Henderson. Paula Folt-Waslesky on "Current and Future Concepts in Parenteral Nutrition and Automated Technology."

Geoscience, 4 p.m., 112 Walker. Simon Brasell on "Molecular Records of Climatic Variability."

■ German, 4:30 p.m., 109 Boucke. Juergen Eichhorn on "The Trials and Tribulations of German Family Names in America."

Science, Technology and Society Program, 7 p.m., Room 26, Mineral Sciences. George Bugliarello on "Biology, Society and Machines: The Biosoma Issues."

Wednesday, February 26
Gerontology Center, 12:15 to 1:15 p.m., The Living Center, 110 Henderson. Janet Friedmann on "Does Anyone Have the 'Right to Die'?" Withholding or Withdrawing Nutrition Support."

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. Joseph L. Rose on "Ultrasonic Guided Waves NDE."

"Creating High-Performance Teams," 4 p.m., Presidential Room 3, The Penn State Scanlon.

■ Center for Russian and East European Studies, 7:30 p.m., 307 HUB Victor Isarelyan. Sergio Mikoyan and Vagan Gevorkyan on "Russian Views about NATO Expansion."

Thursday, February 27
Gravity Center, 11:30 a.m., 339 Davey Laboratory. Roumen Borisov on "Hamiltonian Constraints."

Physics, 3:30 p.m., 101 Osmond Laboratory. Daniela Borioletto on "Is the Top Quark Special?"

Computer Science and Engineering, 4 p.m.,

302 Pond Laboratory. William Farmer on "The Little Theories Method for Specifying Complex Systems."

Landscape Architecture, 8 p.m., 101 Jobb Thomas Building. Julie Mor Messervy on "The Inward Garden."

Distinguished Speaker Series, 8 p.m., Schwab Auditorium. Jim Palmer gives a talk on motivation and persistence.

Friday, February 28
Palmer Museum of Art, 2 p.m., Palmer Lipson Auditorium. Glenn Williamson, curator, on "Allan Sekula and the Documentary Tradition."

Economics, 3:30 p.m., 420 Kern. Linda Goldberg on "Employment vs. Wage Adjustment and Exchange Rates: A Cross Country Comparison."

Saturday, March 1
Office for Minority Faculty Development, 9 a.m. to noon, 110 Agricultural Sciences and Industries. Robert Kiloren on "Seeking Grant Funds Electronically: Register by Feb. 26, phone (814) 863-1663."

CONFERENCES
Friday, February 21
ACHE Annual Meeting Planning Committee, The Penn State Scanlon, through Feb. 22.

Monday, February 24
PGA Golf Pro Seminar, The Penn State Scanlon.

Wednesday, February 26
Continuing and Distance Education Systemwide Conference, The Penn State Scanlon, through Feb. 28.

Thursday, February 27
PA Junior Science and Humanities Symposium, The Penn State Scanlon, through Feb. 28.

EXHIBITS
HUB Art Alley Cases
■ Office of International Students presents "International Festival," through April 6.

HUB Art Alley Panels
Unity Days and graphic design "Imagine a World," through Feb. 23.

HUB Browning Gallery
■ Photography exhibit titled "Our Land" by Jay Sieminski, through Feb. 23.

HUB Formal Gallery
"Memories of Childhood," through Feb. 22.

HUB Sculpture Corner
"American Gothic Revisited" by Jane Richey, through May 21.

Palmer Museum of Art
"Disimal Science: Photo Works by Alan Sekula, 1972-1996," through March 16.

"Capturing the Light: A Selection of 20th-Century American Watercolors" by Winslow Homer, through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 15.

Zoller Gallery
School of Visual Arts, "Undergraduate Juried Exhibition," through March 28.

■ Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at URL <http://cac.psu.edu/calendar/>



Behrend team improves admissions processes

The assistant director of admissions and financial aid at Penn State-Behrend, Jane Braedy, is leading a CQI team to review and improve admissions publications. Team members include Bob Light (facilitator), Paul Benim, Kris Motta, Anne Marie Welsh, Mari Trenkle, Paul Newlin, Ed Mulfinger and Katie McClelland. Mary-Ellen Madigan is the team sponsor. The team's major accomplishments include:

- A review of all the recruitment material distributed by Behrend's Admissions Office;
- Flow charting the sequence of publications sent to prospective students;
- Collecting numerous search pieces and view books from other colleges and universities and conducting four student focus groups to evaluate the materials;
- Based on the "best practices" identified in the material, fine-tuning Behrend's admissions literature.

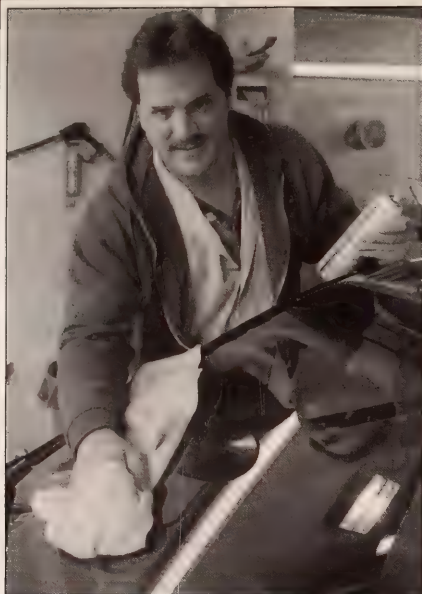
Initiatives in the Face of Resistance

On March 4, Tom Poole, acting deputy vice provost for educational equity, and Larry Young, director of the Paul Robeson Cultural Center on the University Park campus, will offer a new program on "Introducing New Initiatives in the Face of Resistance." This workshop will examine the relationship between CQI and diversity and ways to make them work in the work place. Those committed to improvement must be able to see the relationship between these initiatives, convey those connections to others and build bridges among component groups. The program will be held in 319 Rider Building from 8:15 - 11:15 a.m. If you would like to attend, please call the HRDC at (814) 865-8216 and ask to register for CQI 053.

Quality Expo

Need information about the Quality Expo? Visit the Web site at <http://www.psu.edu/president/cqi>.

For additional information about continuous quality improvement, please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, (814) 865-8721 or e-mail LES1@PSU.EDU.



Top-rate job

Jim Stania cleans one of the cars at Fleet Operations on the University Park campus. Keeping the 400 cars, trucks, vans and buses clean is especially difficult during the winter months because of bad weather and road salt.

Photo: Greg Grieco

News in Brief

Health Promotion

The following Health Promotion Programs are being offered in the coming weeks. To register for any of them, contact Jan Hawbaker at 865-3085 or JQH3@psu.edu.

■ **Enlightening Lunch — Cancers Men Should Know About**
Meets Friday, Feb. 28, from noon to 1 p.m., 110 Henderson Building (The Living Center). Cost: None

■ **Wellness and Employee Assistance Program (EAP): Special Informal Discussions**

The EAP and the faculty/staff health promotion division of the Office of Human Resources are offering two programs to help faculty and staff deal with difficult situations in their lives. Cost: None.

— **Juggling the Two-Career Family**
Meets Feb. 28 from 9-10 a.m., 125 Reber Building

— **Be Your Own Best Friend — The Power of Self-Esteem**
Meets Feb. 28 from 10:30-11:30 a.m., 125 Reber Building

Know Your Numbers Cardiovascular Risk Appraisal

The next open session of the Know Your Numbers Program is Wednesday, March 5, in the HUB Gallery Lounge. Program includes screenings for blood pressure, body mass index and total and HDL cholesterol, as well as an explanation of results. This program is open to all faculty and staff. Cost is \$15, reimbursable to HMO participants.

Depressed people sought

Most people feel depressed at some time or another in their life, but some experience major depression. A study being conducted at Penn State is designed to help people with this problem.

If you believe that you are experiencing major depression and would like to be considered for this study, please call (814) 863-4833.

Louis Castonguay, assistant professor of psychology, is the principal investigator in this study.

Faculty/Staff Alerts

Reminders from Mailing Services

■ Late mail

Mailing managers at universities across the country have reported experiencing mail delivery delays from the United States Postal Service. Locally for example, it has been documented that some mail has required a week between its postmark in Lewistown and its arrival at University Park. Please keep this in mind when using the USPS. All incoming U.S. mail is delivered on campus the same day it is received from the post office. Also, all outgoing first class mail picked up by the campus mail system goes to the post office on the same day.

■ UPS ad in the telephone books

Federal Express is the contractual carrier for express package and letter delivery service for Penn State, and Penn State departments receive a substantial discount by using this contractual carrier. You may use UPS international and next-day service for your personal packages, but payment must be made by you for personal packages.

■ First-class mail

To ensure that your first class mail gets to the U.S. Postal Service on the same day, please have it into Mailing Services by 4 p.m.

■ Change in custom forms

The United States Postal Service has implemented new changes for Canada, Mexico and international packages weighing more than one pound at the first-class rate. A barcoded form must be filled out by the department and attached to each package going to non-domestic locations. The old forms are no longer valid. New forms are available at Mailing Services. Please call (814) 865-7544. All packages that do not have the proper form will be returned to the sender.

Staff Focus Committee has a site on the Web

The Staff Focus Committee, an advisory group to Penn State that is staffed by Billie Willis, assistant vice president for Human Resources, now has a Web site on the Office of Human Resources home page.

To access the site, go to URL <http://www.ohr.psu.edu> and click on "Documents." The Staff Focus Committee will appear under the "Informational" section. The Web site provides immediate access to the list of committee members. It is hoped that staff will contact this group with issues and concerns that impact on the University's programs.

State College attorney is honorary alumnus

Delbert J. McQuaide — a prominent State College attorney, Penn State's general counsel since 1970, and valued confidante and adviser to Penn State presidents, trustees and administrators — has received the Honorary Alumnus Award from the Penn State Alumni Association.

The award, established in 1973, is the highest award given by the Alumni Association to a non-alumnus. It honors those who have made significant contributions to Penn State's welfare, reputation and prestige and who greatly enhance the University through their commitment and service.

Peter Weiler, associate vice president for development and alumni relations, said that McQuaide has "devoted virtually his entire professional career to the well-being of Penn State. He has guided and counseled Penn State on hundreds of legal matters, large and small, and he has witnessed and helped bring about substantial growth and change at Penn State. In short, for more than 25 years, he has participated in every major decision made at the University."

Over the years, Penn State has turned to

McQuaide for counsel on a wide range of issues. He has been involved in decisions involving the development of The Bryce Jordan Center, several expansions of Beaver Stadium, and the expansion of the Palmer Museum of Art, to name just a few; the governance of the university; changes in policies affecting students; contracts; personnel issues; and many more.

McQuaide is the author of the governance documents by which the University operates — documents recognized as models nationwide. University administrators say McQuaide's style is understated. He has always played a quiet, behind-the-scenes



DELBERT J. MCQUAIDE

role, and he has never sought the spotlight. McQuaide is known for his keen legal mind, his careful analysis of the issues, and his sound, dispassionate judgment.

His guidance is viewed as crucial to the success and progress of Penn State, and his dedication to the University is of the kind usually demonstrated only by the most loyal and enthusiastic alumni, according to University leaders.

McQuaide earned his undergraduate degree from Juniata College and his law degree from New York University, where he was a Root-Tilden Scholar. He was admitted to the New York bar in 1961 and the Pennsylvania bar in 1964. He serves on the boards of Quaker State Corp. and Mid-State Bank. He is past president of the Centre County Bar Association and chair of the board of trustees of Juniata College.

Other recipients of the honorary alumni awards include former Penn State presidents **Joab L. Thomas** (1955) and **H. Bryce Jordan** (1987), **Barbara R. and James R. Palmer** (1987), and head football coach **Joe Paterno** (1973).

Penn College, Mack Trucks offer diesel technology degree

Mack Trucks Inc. and the Pennsylvania College of Technology have formed an alliance to offer an associate degree in diesel technology, with an emphasis on Mack components. The degree program is the only one of its kind in the nation involving an integrated heavy-duty truck manufacturer and an accredited college. It is slated to begin this fall.

"Given the severe shortage of qualified technicians, Mack believes businesses associated with the trucking industry have to step up and assist local schools in the development of service personnel," said **Russ Raine**, Mack's vice president of customer product support. "If the trend isn't reversed, owner-operated vehicles and fleet trucks alike may face significant downtime due to repair and maintenance delays. Today, there is an estimated one technician for every 30 trucks on the road; a tolerable ratio is one technician for every 20 trucks."

The association between Penn College and Mack is designed to provide students with "real world" experience to prepare them for careers as diesel technicians. Mack supplies Penn College with the latest engine, transmission and rear axle components, as well as the latest electronic technology with V-MAC, Mack's vehicle management and control system. They also train the Penn College instructors on Mack components and make available all

"Today, there is an estimated one technician for every 30 trucks on the road; a tolerable ratio is one technician for every 20 trucks."

Russ Raine, vice president customer product support
Mack Trucks Inc.

the training programs and materials used by Mack's service training schools. In addition, dealers can sponsor students. A student sponsorship includes forgiveness of loans of \$500 per semester for a total of \$2,000 for the two years, payment of test registration fees, an internship and employment upon graduation.

Graduates of the program will receive certification in five areas of Mack specialization. Mack is one of North America's largest producers of heavy-duty trucks, in addition to major product components. The company also markets a line of medium-duty diesel trucks throughout North America. Mack vehicles are sold and serviced in more than 65 countries worldwide. For more information about Mack, visit its Web site at <http://www.macktrucks.com>.

Grant to upgrade Warminster center

The Pennsylvania Department of Commerce recently granted the Applied Research Laboratory \$52,467 to upgrade the Navigational Research and Development Center (NRDC) in Warminster, Pa. The funds were made available through the Department of Commerce's

Infrastructure Development Program. The Federal Lands Reuse Authority (FLRA) of Bucks County applied for the grant on behalf of ARL. The funds will be used to provide the facility with necessary improvements to conduct navigational research operations. . . .



Prominent speaker

The Rev. Jesse Jackson, founder and president of the National Rainbow Coalition and one of America's foremost social and political figures, gives his autograph to Andrea Carr, a freshman from Erie, center, and Sheron Alexander, a member of the Community Advisory Council for Underrepresented Groups at Penn State State Erie, The Behrend College, before his Feb. 12 talk, "Keep Hope Alive." Jackson's visit was one of the activities at the campus in celebration of Black History Month.

Agenda full for Faculty Senate meeting

The University Faculty Senate will meet Feb. 25 at 1:30 p.m. in Room 112 Kern Graduate Building on the University Park campus.

- Items to be addressed include:
 - Curriculum Report of Feb. 17.
 - Modification of Senate Policy 58-50—Conditions for re-enrollment as a degree candidate (legislative)
 - Revision of Article II: Senate Committee Structure (legislative)
 - Procedures for terminating tenure-protected faculty (advisory/consultative)
 - Access to personnel files (advisory/consultative)
 - Status Report from the chair of the Commonwealth Educational

System Reorganization Steering Committee (oral informational)

—The effect of excessive alcohol consumption on student life case management by the Office of Judicial Affairs (informational)

Members of the University community are invited to attend this meeting. Any member of the University Community not a member of the Senate may request the privilege of the floor on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting at which the individual wishes to speak.

Commission for Women seeking new members

The Commission for Women, an advisory group to the president on matters affecting women of the University, is actively seeking nominations — including self-nominations — from all women, particularly those whose cultural, racial or ethnic backgrounds would enrich the understanding of the needs and concerns of women throughout the University. The commission values diversity in its membership and is looking for a broad base of nominations.

In addition to being an advisory body, the Commission for Women also promotes the efforts of women and serves as a forum for the exchange of ideas within Penn State. The entire women's community of

Penn State is represented by the Commission for Women and its membership includes faculty, staff exempt and non-exempt personnel, administrators, technical service workers and graduate and undergraduate students. Members of the commission come from throughout the Penn State system and are appointed to serve three-year terms.

Nomination forms may be obtained from the Commission for Women office, 311 Grange Building, University Park, or by calling (814) 865-1683. Nominations must be returned to the commission office no later than April 1. For more information, please call the commission at the above number.

Advisory body accepting nominations through Feb. 28

The Commission on Racial/Ethnic Diversity, an advisory body to the University president on matters relating to racial and ethnic diversity, is seeking nominations and applications for positions that will be open July 1.

Membership includes administrators, faculty, staff exempt, staff non-exempt, technical service employees and undergraduate and graduate students. Full members are appointed by the president to serve four-year terms or, in the case of students, until graduation. Associate members serve one-year renewable terms.

The commission, dedicated to enhancing diversity, actively seeks a broad base of nominations — including self-nominations — from all racial/ethnic backgrounds.

For more information and a nomination form, call the commission office at (814) 863-8493 or copy the nomination form from the diversity Web page at URL <http://www.psu.edu/staff/diversity/racial.html>. Nomination forms must be received in 330 Grange Building by Friday, Feb. 28.

Penn Staters

Micaela Amateau Amato, associate professor of art and women's studies and area head of painting and drawing, presented a paper at the International Conference of the Society for Crypto-Judaic Studies held in Albuquerque, N.M. Amato's paper was titled "Fertile Grounds of Conflict."

Dean Arnold, adjunct assistant professor of aquatic ecology, was recently named a Fellow of the American Institute of Fishery Research Biologists.

The Project on Death in America of the Open Society Institute has selected **Dr. Susan McGarrity**, assistant professor of anesthesia and director of palliative care at The Milton S. Eshersky Medical Center, as a Soros Faculty Scholar.

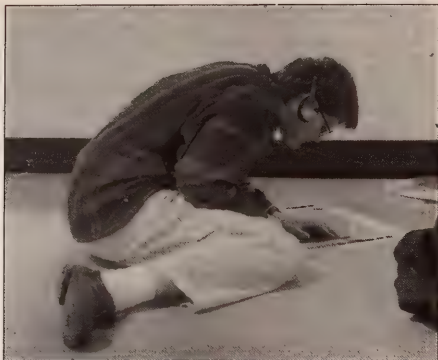
McGarrity and 22 other Soros Faculty Scholars will share approximately \$1.6 million to pursue projects dedicated to improving the care of dying people. The term palliative care refers to maximizing comfort, independence and quality of life for people whose disease cannot be cured and for whom prolonging life is no longer the goal. She is one of 10 new scholars named, who represent 10 major medical institutions in the United States and Canada.

Gerald M. Moser, retired faculty member in the

Department of Spanish, Italian and Portuguese and the Department of Comparative Literature, edited a special issue of the *Luso-Brazilian Review* on Luso-African literatures. The issue contains contributions by scholars from Germany, Mozambique, Angola, Portugal, Canada, Guinea-Bissau, Russia, France and the United States. The *Luso-Brazilian Review*, published twice a year by the University of Wisconsin Press, is the only publication of its type in this country that is exclusively concerned with the Portuguese language and the Portuguese literature of seven countries on three continents.

Robert E. Newnam, associate director of the Intercollegiate Materials Research Laboratory and Alcoa professor of the solid state, delivered an invited lecture on "Smart Ceramics" at the international meeting on the Science and Art of Ceramics held at the Royal Institution in London.

Jane Ridley, associate professor of theatre arts, played various roles in five new international and national plays at the Festival of New Works for a New World at the La Mama E.T.C. Theatre in New York City. As a member of the acting company of the Shenandoah International Playwrights Retreat (SIPR), Ridley worked with playwrights from Egypt,



College collage

Art education student Alexis Parker works on a collage in the Patterson Building gallery on the University Park campus.

Photo: Greg Grieco

Open house planned for Feb. 27

The Penn State Harrisburg campus of the Capital College is hosting a Feb. 27 Open House Information Night aimed at familiarizing area residents with its list of graduate programs.

The open house, which begins with a registration period from 5:30 to 6 p.m., will feature individual program presentations, explanations from faculty, and information on application and financial aid. Penn

State Harrisburg offers 17 master's degree programs in a variety of areas. Also offered is certification in secondary education mathematics, English and social studies, principal's certification, and doctorates in public administration and adult education.

For information or registration, contact Penn State Harrisburg Enrollment Services at (717) 948-6250 or (800) 222-2056.

Israel, Jordan and Vietnam. The SIPR provides a meeting ground for theatre artists of the world to explore the richness of theatrical diversity.

Della M. Roy, professor emerita of materials science, was recently appointed to the Committee on Non-Conventional Concrete Technologies for Renewal of the Infrastructure of the National Research Council Commission on Engineering and Technical Systems. This committee is part of the National Materials Advisory Board.

Weaver Santaniello, assistant professor of philosophy at the Penn State Berks campus, presented a paper on "Nietzsche and Religion" for the Friedrich Nietzsche Society of Great Britain. The annual conference was held at Manchester University in England.

Work developing materials for acid mine drainage abatement done by **Barry Sheetz** and **Michael Silsbee**, senior research associate and associate professor of materials, of the Intercollegiate Materials Research Laboratory was honored with a 1996 Governor's Award for Environmental Excellence for outstanding achievement in technological innovation.

'To be or not to be' wasn't Hamlet's only question

Astrophysicist finds scientific meaning in Shakespeare's work

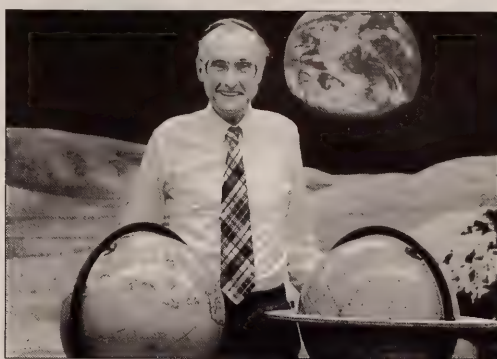
By BARBARA K. KENNEDY
Eberly College of Science

Shakespeare's *Hamlet* has been analyzed by scholars for centuries for its literary significance, but only now has a researcher found astronomical meaning in the play.

Peter D. Usher, professor of astronomy and astrophysics, has presented evidence that *Hamlet* is "an allegory for the competition between the cosmological models of Thomas Digges of England and Tycho Brahe of Denmark." Usher said his findings are significant because Shakespeare favors the Diggesian model, the forerunner of modern cosmology.

"As early as 1601, Shakespeare anticipated the new universal order and humankind's position in it," Usher said. "The play therefore manifests an astronomical cosmology that is no less magnificent than its literary and philosophical counterparts."

Claudius Ptolemy perfected his model of the universe in the second century A.D. that remained the standard model into the 16th century. In this model, the Earth was stationary at the center of the universe and everything else revolved around it. In 1543, Nicholas Copernicus of Poland published a revolutionary model — essentially the one in use today — in which the Earth rotates on its axis once a day and is merely one of several planets that revolve about the Sun. Though the Copernican model had been published



Peter Usher, professor of astronomy and astrophysics, gives evidence that Shakespeare was interested in astronomy as well as literature.

Photo: Greg Grieco

lished before Shakespeare was born, it was not yet in vogue in his lifetime.

However, both the Ptolemaic and the Copernican systems were contained in a crystalline sphere, beyond which lay Paradise and the realm of the Prime Mover. By contrast, in 1576 when Shakespeare was 12 years old, the English scientist and military scholar Thomas Digges extended the Copernican model by suggesting that the stars were like the Sun and were distributed throughout infinite space. He was therefore the first Renaissance scholar to publish the idea of an infinite universe. Eight years later similar ideas were published in a book by the

Italian philosopher Giordano Bruno.

Shakespeare would have known of the existence of these competing cosmological models through his acquaintance with Digges.

This paper suggests that *Hamlet* dramatizes the struggle of Renaissance scholars to discover the real picture of the universe from the appearances in the sky. "When *Hamlet* states: 'I could be bounded in a nutshell and count myself a king of infinite space . . .,' he is contrasting the shell of fixed stars in the Ptolemaic, Copernican and Tychoenic models with the Infinite Universe of Digges," Usher said.

Usher listed several other examples of this type throughout the play that support his findings, including the play's climax.

The chief climax of the play is the return of Fortinbras from Poland and his salute to the ambassadors from England," Usher said. "Here Shakespeare signifies the triumph of the Copernican model and its Diggesian corollary."

While the last year of the 16th century saw the martyrdom of Bruno, the first year of the 17th century sees the completion of *Hamlet* and the Bard's magnificent poetic affirmation of the infinite universe of stars," Usher concludes.

Arabian Sea monsoons control productivity and carbon export

By A'NDREA ELYSE MESSER
Public Information

Investigation of the oxygen and nutrient content of the Arabian Sea could show how monsoons influence ocean productivity and the carbon cycle, according to an oceanographer.

"The monsoons of the Arabian Sea create peculiar ocean currents in the area," Raymond Najjar, assistant professor of meteorology, said.

In the summer, the monsoon blows from the southwest up the Arabian Sea toward Pakistan. Because of a combination of wind and the Earth's rotation, the summer monsoon pushes water away from the Somali coast and the eastern edge of the Arabian peninsula. The water that leaves these coastal areas is replaced by water that wells up from depths and is very high in nutrients. In the winter, the monsoon reverses and blows from the northeast.

"This monsoon does not have as much impact," Najjar said. "However, the strong winds cause turbulent mixing, which brings up some nutrients."

Najjar is using data compiled by the National Oceanographic Data Center since 1900 to assess the average nutrient content of Arabian Sea surface waters on a monthly basis throughout the year. His goal is to understand the role that the ocean plays in the climate system, especially in regulating the amounts of carbon dioxide — a greenhouse gas — in the atmosphere.

Earthquakes illuminate the structure of mantle under Tibet

A new way of looking at seismic waves recorded at monitoring stations in Tibet can shed light on the structure of the mantle beneath this immense push, according to a researcher.

"Tibet is interesting because of its high elevation and because there, the Indian

and Asian continents meet and form the Himalayas," Kevin P. Furlong, professor of geosciences, said. "This makes it a very important site to study the role of plate tectonics in the evolution of continents."

"We tend to know very little about the deformation

beneath the crust. If we have some insight into how the crust and mantle deforms where continents collide, we can better model these collisions."

Working with Thomas J. Owens of the University of South Carolina, Furlong looked at individual seismic events that occurred in the

southwestern Pacific and western North America but were recorded at one of the 11 monitoring stations in Tibet.

"These seismic events are the proper distance from Tibet so that the seismic wave must go through the Earth's core before it arrives in the mantle

beneath Tibet," Furlong said.

The researchers are combining the information they have on the mantle fabric with models of rock deformation to determine the plate tectonic processes which led to the development of the Himalayan and Tibetan Plateau.

Bookshelf

Anthony Cutler, professor of art history, is co-author of *Byzance Medievale 700-1204*, published by Gaillmard of Paris. The book is Volume 41 of a series produced by L'Univers des Formes. Cutler's co-author, J.M. Spieser, is an art historian at Strasburg University specializing in architecture and wall paintings. The book's specializations relating to the book are mosaics, icons and manuscripts.

The book is available only in French or German. In the work, Cutler breaks down the habitual distinction between the religious and the profane, placing them in the context of the larger notion of the sacred. Additionally, Cutler and Spieser do not neglect the economic aspects of art production; they illuminate the interface of Byzantine art with the Islamic world of the Byzantine Empire in its middle period, considered the most remarkable period. The authors also reconsider numerous traditional views of Byzantine art, emphasizing the secular rather than religious aspects, aspects Cutler's research has shown to have been more important than what was previously believed. The book also contains hundreds of full color reproductions of artwork, most of which have not been previously published.

The 1836 London Diary of James Stratton Carpenter, edited and annotated by T. Reed Ferguson, vice president emeritus for public affairs in the Office of Governmental Affairs, was published by Minerva Press. Carpenter, a young physician of English descent living in Pottsville, Pa., kept a detailed diary of his 1836 journey of six months that records the sights, sounds and personalities of London. The diary, complete with Ferguson's explanatory notes, offers unique insights into London during the time of Charles Dickens.

Pro Choice/Pro-Life Issues in the 1990s: An Annotated, Selected Bibliography, compiled by two Penn State librarians, was recently published by Greenwood Press, Westport, Conn.

Richard Fitzsimmons, director of the library at the Penn State Worthington Scranton campus, and **Joan P. Diana**, director emerita of the library at the Penn State Wilkes-Barre campus, have examined more than 4,000 pro-choice and pro-life publications and releases from 1990-1994, and selected 1,600 for inclusion in the bibliography.

The book provides access to significant literature published in the United States that will assist readers in reaching informed decisions on the pro-choice/pro-life issue. As a "selected" bibliography, the book includes only materials fitting parameters of research in the ethical, legal, moral, religious and social arenas.

For the Record

The photo of the Pennsylvania Dance Theatre rehearsal on page 7 of the Feb. 13 *Intercom* was taken by Helena Lukas Martemucci. The photo credit was unintentionally omitted.



Temporary relief

Dancers get a short break and a baby powder rubdown by morale team members, left, during the 25th Interfraternity Panhellenic Dance Marathon, held Feb. 14-16 at the White Building on the University Park campus.

Below, junior Brett Stackhouse ices his forehead to refresh himself while dancing.

A record \$1,528,425.64 was raised for the Four Diamonds Fund at The Hershey Medical Center, which benefits children with cancer. Alpha Tau Omega fraternity and Zeta Tau Alpha sorority teamed up to raise the most money, \$175,802.45.

Out of the 550 dancers who started the marathon, 534 were still standing at the end of the 48-hour event.



Photos: Greg Grieco

Private Giving

Couple funds scholarships for DuBois Campus

Albert L. Good never attended classes at the Penn State DuBois campus. In fact, he wasn't a college graduate. He and his wife, **Harriet**, had no children of their own, but they were concerned about access to higher education in the DuBois area. Today, as the result of their generosity, more than two dozen DuBois campus students are getting a financial boost toward their college degrees.

Albert Good was involved in the insurance and real estate business in DuBois for nearly four decades. He was a president of the Rotary Club of DuBois, a director of Deposit Bank and involved with the YMCA, the Tri-County Board of Realtors and the City Parking Authority. He and his wife were both active members of the Mt. Zion United Methodist Church. Albert died in 1990; his wife, Harriet, died in 1994.

Through their will, the Goods endowed a trust fund of nearly \$380,000 that will ensure their names are not forgotten at the DuBois campus. The interest from that fund each year is channeled into scholarship awards for campus students. Scholarship guidelines require only that the students have financial need, academic ability and are residents of either Clearfield, Jefferson or Elk counties. Scholarship money was awarded for the first time from the fund this fall.

The DuBois Educational Foundation, the campus advisory board, helped design the funding path for the annual proceeds in cooperation with officers of First Commonwealth Trust Company of DuBois, who manage the principal.



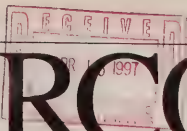
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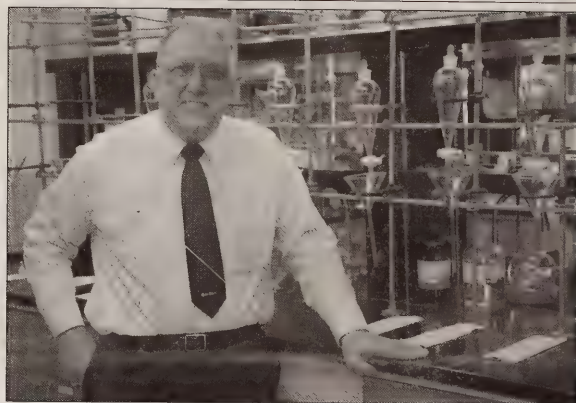
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Volume 26, Number 22



Lasting impression

Ralph O. Mumma, distinguished professor of environmental quality, has just had an endowed professorship named in his honor. Mumma is the first to hold the Ralph O. Mumma Professorship in Entomology, but plans to retire later this year. The University now has 77 endowed professorships.

Photo: Greg Grieco

State College couple honors professor with endowment

A \$500,000 gift from M. Michael and Mitra Arjmand of State College will create a new professorship in entomology named in honor of Ralph O. Mumma, distinguished professor of environmental quality.

The Ralph O. Mumma Professorship in Entomology will be based in the College of Agricultural Sciences in recognition of Michael Arjmand's continuing friendship with Mumma, who plans to retire this year. The distinguished professor was a mentor to Arjmand, now president of Centre Analytical Laboratories, during his master's and doctoral degree studies in entomology at Penn State in

the 1970s, and later helped him move to America from his native Iran.

"I believe education to be the fundamental element of freedom, and what better way to make the point than to honor my own professor," Arjmand said.

Arjmand was further assisted by Mumma in the creation of Centre Analytical Laboratories, which now employs nearly 60 people to perform chemical analyses for a number of environmental concerns, including testing residential drinking and waste water and helping create environmen-

See "Professorship" on page 3

University budget now available on World Wide Web

Thanks to technology, the University's budget is even easier to access.

Available to the media and the public in libraries across the state since the 1980s, the budget is now just a mouse click away — on the World Wide Web.

"Penn State's open budget is one of the most comprehensive, detailed documents of its type in higher education," said President **Graham B. Spanier**. "We believe that moving the 500-plus pages of budget information onto the Web will open it up to wider audiences and give the public additional information about how the University operates."

The budget can be found by pointing a Web browser, such as Netscape, to Penn State's home page at <http://www.psu.edu>. From there, hotlinks will lead electronic visitors to Penn State's fiscal blueprint. Those wanting to review the document will need to download a reader, Adobe Acrobat, which is provided free of charge.

For approximately a decade, Penn State's budget and related documents totaling thousands of pages of information have been placed in the

See "Open budget" on page 3

HUB/Robeson plans move along on schedule

Plans for the expansion and renovation of the Hetzel Union Building (HUB) and the construction of the new Paul Robeson Cultural Center, both on the University Park campus, are moving ahead as planned.

"The design committee, which includes faculty, staff and students, has been working closely with the architects since spring 1986 on design, budget and program issues," said **Craig Millar**, committee chair and associate vice president for student affairs. "We have talked with many units and the public about how best to accommodate the needs of students, faculty, staff and visitors."

See "HUB" on page 7



More construction information on page 6.

Inside



Women's History Month celebrations

March is Women's History Month and many Penn State locations have events on tap. For a listing of the events planned, please see page 12.



Slow demise

A Penn State paleontologist has discovered similar extinction patterns for dinosaurs and elephants. The findings could shed light on the demise of dinosaurs. See page 15 for details.

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GLAD you asked

To submit a question for this column, please send e-mail to ASK@PSU.EDU. Submissions must include the name and telephone number of the person submitting the query so that *Intercom* can verify the source. For publication purposes, *Intercom* will use the initials of the individual sending the question and their campus location or department, depending on the nature of the question. Requests for anonymity will be honored.

Q. What is a "Nittany Lion?"

—The McKevitt Family
Hanover Park, Ill.

A. The name "Nittany" is apparently derived from the Native Americans (Mohicans) who lived here in central Pennsylvania used to describe the mountain that today overlooks the University Park campus. The term meant either "single mountain" or "barrier against the winds." Nittany Mountain, truly an impressive barrier, was thus named by settlers many years before Penn State's founding in 1855.

Penn State athletic teams had no mascot as late as 1906, when the baseball team played Princeton. Sensing the need for a counterpart to that university's famous tiger, student H.D. "Joe" Mason ('07) urged adoption of a fierce mountain lion. But to give it a distinctive Penn State flavor and avoid confusion with cats of various kinds used as mascots by other schools, Mason coined the term "Nittany Lion." Students and fans immediately accepted the appellation.

—Mike Bezilla
director

Development Communications and Special Projects

Q. Who is entitled to draw retirement pay from the University

—J.A.H.
University Park

A. Eligible University faculty and staff may elect to participate in either the State Employees' Retirement System (SERS) or the Teachers Insurance and Annuity Association and College Retirement Equities Fund (TIAA-CREF) as required by state law.

Each program has eligibility requirements for drawing a retirement pension. There are several qualifying events which must take place first: Primary importance is given to meeting the vesting requirements for either plan. SERS participants must have 10 years of credited service, or be at least age 60 with three years of service to be eligible for a pension benefit. TIAA-CREF participants are fully vested upon enrollment.

For specific questions related to eligibility rules, please contact Debra L. Wolfe, benefits specialist, at (814) 865-1473; or e-mail DLW3@psu.edu.

—Billie S. Willis
assistant vice president for Human Resources

Appointments

Vice president for research named

Rodney A. Erickson, dean of the Graduate School, has been named, in addition, vice president for research.

He had been serving as interim vice president for research since David Shirley, his immediate predecessor as vice president, retired in December.



RODNEY A. ERICKSON

As vice president for research, Erickson will lead a \$350 million a year research enterprise that is the largest among universities in Pennsylvania and 10th among all American universities. Penn State also ranks second in the nation, behind the Massachusetts Institute of Technology, in industry-supported research.

In recent years Penn State's faculty and students have made discoveries and innovative advancements in fields as diverse as medical diagnostics, affordable housing, effective wastewater treatment systems, weather prediction, astronomy, early childhood development, global economic competition, feminism, and the effects of space flight, to name only a few areas of research.

In addition to his administrative post, Erickson is a professor of geography and business administration. He was head of the Department of Geography in the College of Earth and Mineral Sciences from 1990-94. From 1981 to 1995, he served as director of the Center for Regional Business Analysis and, from 1984-1995, was associate director of the Division of Research in The Smeal College of Business Administration. He was appointed dean of the Graduate School on July 1, 1995.

Erickson earned graduate degrees at the University of Minnesota and the University of Washington. He joined the Penn State faculty in 1977. His teaching and research have focused on urban and economic geography, and he has published widely on topics including regional economic growth theory, industrial location, international trade and economic development policies.

Erickson has served in leadership roles in professional organizations for geography and business administration, and currently is a member of the editorial boards of four journals. A former Fulbright Research Scholar in the United Kingdom, he also has been a Simon Senior Research Fellow at the University of Manchester, and a National Science Foundation/American Statistical Association Research Fellow at the U.S. Bureau of the Census. His current research involves the foreign trade and international investment of manufacturing and service industries across U.S. regions, and the evaluation of public policies for export expansion.

Smeal College appoints director of development

Beverly McAlister, formerly with Arizona State University, has been appointed the new director of development in The Smeal College of Business Administration.

McAlister was director of development for Arizona State's University Libraries, which serve the school's 43,000 students and faculty members and are ranked among the top 30 Academic Research Libraries in the U.S. and Canada. Under her leadership, the libraries raised more than \$3 million in three years. She also organized efforts which resulted in a 97 percent increase in gifts disbursed to benefit ASU students and faculty members through the advancement of library resources.

Before joining Arizona State in 1993, McAlister developed and implemented the annual fund-raising plan for the March of Dimes Birth Defects Foundation in Phoenix.



BEVERLY McALISTER

As director of development for the organization for six years, she is credited with overseeing a 75 percent increase in corporate and major gifts. From 1975 to 1987, she was deputy director of the Community Care Network in Phoenix and an account executive with James Holechek & Associates Inc., Baltimore. At James Holechek & Associates, she won a Public Relations Society of America award for her work.

McAlister graduated cum laude from the University of Maryland in 1975 with a bachelor's degree in journalism. She is a member of the National Society of Fund Raising Executives, and is past president of Women in Communication Inc.

Director to oversee development for Berks-Lehigh Valley College

Kimberly J. Murphy, a certified fund-raising executive, has been appointed director of development for the Berks-Lehigh Valley College. Murphy will oversee development and university relations for the Berks and Allentown campus locations.

Since Murphy's arrival as director of university relations at Penn State Berks in 1992, the campus has doubled its scholarship endowments, now exceeding \$1 million. She earned her certification as a fund-raising executive from the National Society of Fund Raising Executives. In addition, she will continue to oversee all public relations and alumni events for the college.

She is a member of the Junior League of Reading and sits on the board of directors of the Berks County Chapter of the American Red Cross and Beacon House, a transitional housing program. A Penn State alumna, Murphy is past president of the Penn State College of Education Alumni Society Board and is an active volunteer for the Penn State Alumni Association.



But officer ...

Keith Yocum (left), a property protection guard with the Department of University Safety, listens as student Jeff Schlage debates a potential parking violation that could earn him a ticket for illegally parking behind Carnegie Building on the University Park campus.

Photo: Valerie Manns

Open budget

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libraries at its 23 campus locations. Each copy of the budget and the related documents cost about \$100 to photocopy. Making the volumes of information available on the Web will save the University thousands of dollars annually, administrators said.

In addition to the open budget, Penn State also produces an annual expenditures report totaling hundreds of pages. This report is also placed in each of its libraries around the state. Press releases and the public information staff of the University provide other financial information about the University throughout the year, ranging from fundraising results to the cost of new buildings.

"This is our first attempt to organize the hundreds of pages of budget detail for World Wide Web users and we hope in coming months to make the volumes of information increasingly easier to explore," said P. Richard Althouse, the University's budget officer.

Examples of budget information that can be found in the Web documents range from budgets for the University Faculty Senate and The Bryce Jordan Center, to the cost of fire insurance and hazardous waste disposal. Interested in incoming funds? The largest portion of income in Penn State's total operating budget — 27.2 percent — is generated by tuition, with the second largest source coming into the University through research funding — largely from sources outside of the Commonwealth. The smallest of the three main sources of operating income for Penn State is through the annual state appropriation.

Many thousands of other pages of information about Penn State are also accessible through the University's main home page on the Web.

"I doubt that there are many universities in the country as large as Penn State that provide this kind of easy access to this much budget information," Spanier said. "The budget available in all of our libraries and now on the Web is a copy of the same budget that sits in my office."

"Penn State is a world leader in the use of information technology and this seemed like a good time to turn to the Web to help us make this information more widely available," Spanier said.

Professorship

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tally friendly pesticides.

The Arjmand gift will supplement the Department of Entomology's normal support for the new professorship, which will open for possible hiring in the first half of 1997. The gift will be used for research, education and travel expenses, and stipends for graduate student assistance.

The department currently houses 19 tenure track and nearly 30 total faculty members. Mumma, a native of Mechanicsburg, Pa., did his undergraduate work at Juniata College and earned his Ph.D. in organic chemistry from Penn State in 1960. He joined the Pesticide Research Laboratory at Penn State in 1966 and was the first faculty member of the College of Agricultural Sciences to be named a distinguished professor and to win the University-wide Howard B. Palmer Faculty Mentoring Award.

Mumma's research has focused on the fate of pesticides in the agro-ecosystem, the development of analytical methods to analyze for these agrochemicals, and, more recently, on plant mechanisms for resistance to insects.

■ Outreach

E-mail network helps dairy farmers

By ESTON MARTZ
College of Agricultural Sciences

For the last 10 months, an innovative electronic mail group in western Pennsylvania has provided a new way for Penn State Cooperative Extension to serve local dairy farmers.

"We gave 40 dairy producers in western Pennsylvania a computer account with electronic mail capabilities," said Gary Sheppard, extension agent in Westmoreland County, who established the West Dairy Producers Network with colleagues in Crawford, Erie, Indiana, Lawrence, Mercer and Somerset counties and technical assistance from the computer support unit in the College of Agricultural Sciences.

"We wanted to show dairy producers the potential uses of the Internet and explore the use of computer networks in our educational mission," Sheppard said. "What has evolved is a very active network of 56 producers."

The e-mail discussion list enables producers to share information and ask questions about any aspect of the dairy business in western Pennsylvania. The extension agents on the list make sure that research-based information is available to producers who have specific questions. For instance, when a dairy farmer had a question about some cows that had developed large udders, Sheppard was able to put him in touch with Lawrence Hutchinson, professor of veterinary science at Penn State.

The network also offers significant opportunities for farmers to benefit from cooperation.

"Large farms have tremendous buying power," said Sheppard. "If smaller operations could easily find other local farmers who need to buy the same supplies, this buying power also could be theirs. A farmer can simply ask others in the group if they want to split a tractor-trailer load of seed. If the

"Anyone with Internet access can pose as an expert, even if they aren't qualified ... extension can help producers who use the Internet to find the best sources of information, without bias."

— Gary Sheppard
extension agent

mailing list is well-managed and regional, such opportunities are endless."

The sheer volume of information created by worldwide e-mail discussion groups is difficult for a single person to manage. "Extension is in a unique position to use the Internet to help farmers, who are extremely busy, to reap the benefits of this information explosion," said Sheppard.

"As extension agents, my colleagues and I monitor a wide range of Internet discussion groups focusing on dairy management, veterinary medicine, grazing and other topics. We sort through the discussions and send items of regional importance to the producers we work with."

Penn State Cooperative Extension's educational role also helps farmers avoid invalid or distorted information.

"Anyone with Internet access can pose as an expert, even if they aren't qualified," Sheppard said. "Also, commercial groups on the Internet may be more interested in sales than in helping a producer solve a problem. Extension can help producers who use the Internet to find the best sources of information, without bias."

LECTURES

Free high performance computing application seminars

The Institute for High Performance Computing Applications is offering a free seminar every week during spring semester on the University Park campus. The following seminars are for March. All seminars listed, unless otherwise noted, will be held in Room 215 Hammond Building from 3:35 to 4:25 p.m.

— March 3: **Jim Anderson**, professor of chemistry at Penn State, will discuss "Quantum Monte Carlo;"

— March 10: Spring break;

— March 17: **Iain Boyd**, professor of aerospace engineering at Cornell University, will focus on "Parallel Implementation of a Monte Carlo Method for Nonequilibrium Gas Dynamics;"

— March 24: **George Karniadakis**, professor of applied mathematics at Brown University, will talk about "Spectral/hp Element Methods for Parallel Computers;" and

— March 31: **D. Yung** from IBM, Toronto, will discuss "High Performance Fortran and Java Compilers."

For a full listing of seminars planned, visit the institute's Web site at <http://cac.psu.edu/~hlh/pca/spring597e97.html>

Learn about drug targeting for cancer therapy

The annual Mylar Giri Lecture on the Penn State Hazleton campus featuring speaker **Ned D. Heindel**, Bunn Chair professor of chemistry at Lehigh University, will be held at 7:30 p.m. Monday, March 3, in the Evelyn Graham Academic Building. Heindel will discuss "Drug Targeting for Cancer Therapy."

Heindel is also a visiting professor of nuclear medicine at Hahnemann University. He received his B.S. degree in chemistry and mathematics from Lebanon Valley College, and his Ph.D. in organic chemistry from the University of Delaware. He was a Fellow in medicinal chemistry at Princeton University, and received honorary doctoral degrees from Lebanon Valley College and Albright College.

The Mylar Giri Lecture is presented annually in honor of the late Hazleton campus physics professor. The lecture is free to the public.

Examine welfare reform problems March 4

Sheldon H. Danziger, professor of social work and public policy at the University of Michigan, will present "What Went Wrong with Welfare Reform?" a seminar at 11:45 a.m. Tuesday, March 4, in 406 Oswald Tower on the University Park campus.

Danziger is a nationally known scholar on poverty and welfare, and co-author of *Unequal* (Harvard University Press, 1995). He will discuss how economic, public policy and family structure changes over the past two decades contributed to high rates of poverty and welfare dependency. In his talk, Danziger will argue that the welfare reform legislation of 1996 is flawed because it ignores the key findings from evaluations of welfare-to-work programs and from labor market research. Building on these key findings, he will suggest ways the welfare reform process could be improved. He also will discuss a welfare reform research agenda on major unresolved issues.

Please contact **Laura Zimmerman** at (814) 865-0486 or lzimmer@pop.psu.edu for additional information.

Psychology lecture planned for March 4

The Robert G. Bernreuter Lecture in School Psychology will be held at 7:30 p.m. Tuesday, March 4, in Kern Auditorium on the University Park campus. **George Albee** will be the featured speaker.

Albee, who was honored in 1993 by the American Psychological Association with the Gold Medal Award for Life Contributions by a Psychologist to the Public Interest, also directed the Task Force on Manpower for President Eisenhower's Joint Commission on Mental Illness and Health, and the Task Panel on Prevention for President Carter's Commission on Mental Health. He and his colleagues have edited 17 volumes on primary prevention, based on annual conferences at the University of Vermont. Albee is a long-time advocate of a social-cultural model of mental disorders and finds causation in class exploitation, sexism and racism.

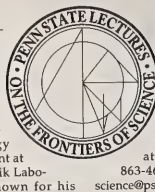
Probe evolution of social behavior March 1

"On Becoming Human" is the topic of the spring semester 1997 Penn State Lectures on the Frontiers of Science. Designed for the enjoyment and education of central Pennsylvania residents, the lectures take place on six consecutive Saturday mornings from 11 a.m. to noon on the University Park campus.

The final lecture in the series, "The Evolution of the Mind: Speculations from Contemporary Biology Based on the Musings of a Young British Victorian Naturalist," will be given on March 1 by **Jeffrey A. Kurland**, associate professor of anthropology and human development at Penn State, in 111 Wartik Laboratory. Kurland is known for his



JEFFREY A. KURLAND



research on the evolution of social behavior in nonhuman primates and in humans. He will show that humans share with their closest living primate relatives certain features of behavior and cognition — and hence, "the mind" — that may help us understand our roots within the process of evolution.

The Penn State Lectures on the Frontiers of Science are sponsored by the Eberly College of Science. Parking is available at the HUB Deck parking garage on Shortlidge Road. For more information, contact the College of Science Office of Public Information by telephone at (814) 863-8453 or (814) 863-4682, or by e-mail at science@psu.edu.

Explore an "Inward Garden" at tonight's Bracken Lecture

Julie Moir Messervy, Principal of Messervy Associates, a landscape design consulting firm specializing in the design of contemplative gardens, will be the second speaker in this year's John R. Bracken Lecture Series. The Bracken Lecture Series is sponsored by the Department of Landscape Architecture of the College of Arts and Architecture.

The lecture, "The Inward Garden," is scheduled for 8 tonight in 101 Joab Thomas Building on the University Park campus.

Messervy received her bachelor of arts from Wellesley College and attended the Massachusetts Institute of Technology's School of Architecture, where she received her master's of architecture and master's in city planning. She trained with the eminent Japanese garden master Kinsaku Nakane in Kyoto, Japan, first as a Henry Luce Scholar and later as a Japan Foundation Fellow.

Messervy has built gardens throughout the Boston area for the past 15 years, working with institutions and private individuals. Recent



JULIE MOIR MESSERVY

clients include the Arnold Arboretum, the Friends of the Public Garden, Mount Auburn Cemetery and the Museum of Fine Arts, Boston, where she designed Tenshin-en, The Garden of the Heart of Heaven with professor Kinsaku Nakane. She has taught in programs at MIT, Harvard, Radcliffe, the New York Botanical Garden and the Arnold Arboretum, and lectured around the country and in Canada.

Messervy's first book, *Contemplative Gardens*, was published in September 1990 and was called one of the 10 best garden books of 1990 by *The New York Times*. Little, Brown released Messervy's second book, *The Inward Garden*, in March, 1995.

Messervy is currently collaborating with internationally acclaimed artist Yo-Yo Ma in designing a music garden. This will be the first in a series of six artistic collaborations which will be filmed by Rhombus Media Productions of Canada.

A reception and book signing will be held after the lecture. The lecture is free to the public.

More Lectures

Activist women to be discussed March 4

The third speaker of the Women's Studies Feminist Scholars Series, **Temma Kaplan**, will present "Crazy for Democracy: Women in the Environmental Movement" at 7:30 p.m. Tuesday, March 4, in 101 Kern Building on the University Park campus.

Kaplan, a professor of women's studies and history at the State University of New York at Stony Brook, is the author of *Anarchists of Andalusia, 1868 to 1903*; *Red City, Blue Period: Social Movements in Picasso's Barcelona*; and *Crazy for Democracy*. A book signing for her most recent publication will follow the lecture.

Kaplan focuses her work on the efforts ordinary women have made to fight for social justice and human rights. As an activist and historian, Kaplan is particularly concerned with the gendered nature of social struggles. Through her work she has



TEMMA KAPLAN

attempted to broaden theoretical interpretations of leadership and social action to highlight women's grassroots movements at the international level. Specifically, Kaplan's work is based on her extensive comparative studies of women's social movements in Europe, Africa, Latin America and the United States.

She was director of the Bernard Center for Research on Women from 1983 to 1991, and also has participated in international conferences such as the Fourth United Nations Conference on Women, held in Beijing in 1995.

The Feminist Scholars Series is sponsored in part by a grant from the Equal Opportunity Planning Committee, Women's Equity Fund. For information on this lecture or the Feminist Scholars Series, please contact the Women's Studies Program at (814) 863-4025.

Diversity workshop to be held at Nittany Lion Inn

The President's Commission on Racial/Ethnic Diversity (CORED) will sponsor a one-day workshop, "Diversity ... Beyond Awareness and Education," on Monday, March 31, at The Nittany Lion Inn on the University Park campus.

Open to the entire University community, this workshop is designed to provide Penn State employees with an opportunity to share their ideas about multiculturalism and their experiences. In addition, there are sessions planned to provide new employees, particularly people of color, with resources for professional success. The commission is hoping to obtain fresh input on strategic directions for the future.

The tentative schedule includes sessions on affirmative action in the 21st century, career opportunities and networking, defining multiculturalism broadly, thriving in a majority environment, and the mentoring process. A representative from Corning Ashi Video Products Co. in State College will provide an industry viewpoint about diversity.

There is a registration fee of \$20,

which includes lunch and some resource materials. Registration deadline is March 21. For questions about the program, please contact Vicki Fong, CORED member and workshop coordinator, at (814) 865-9481 or at vf1@psu.edu; for questions on registration, contact Shannon Hoover at (814) 863-8493 or at sh7@psu.edu.

CORED was appointed in 1989 as a University-wide advisory body to the president on matters relating to cultural diversity throughout all Penn State locations in the Commonwealth, and to serve as a forum for the exchange of ideas within the University. For more information about the group, check the home page at <http://www.psu.edu:80/staff/diversity/racial.html>.

CORED also will sponsor a Best Practices in Diversity conference this September, along with the College of Education and the Committee on Institutional Cooperation, the academic arm of the Big Ten universities and the University of Chicago.

For more information, visit the home page at <http://www.cde.psu.edu/C&I/BestPracticesInDiversity/>.

Atomic physics talk is meant for everyone

Carl Wieman, a leader in the field of ultra-low-temperature atomic physics, will give the 1997 E. W. Mueller Memorial Lectures in Physics on March 5 and 6, on the University Park campus.

Wieman's first lecture, which is intended for a general audience, is titled "The Chilling Story of an Atomic Identity Crisis: Bose-Einstein Condensation at 1 Millionth of a Degree above Absolute Zero" and will take place at 8 p.m. Wednesday, March 5, in 112 Kern Building. His second talk, a physics colloquium, is titled "Bose-Einstein Condensation in an Ultracold Gas" and will take place at 3:30 p.m. Thursday, March 6, in 101 Osmond Laboratory.

Professor Wieman recently made a landmark accomplishment by performing the first Bose-Einstein condensation of an atomic vapor, a transition that had been sought in many laboratory experiments for nearly two decades.

Wieman received his Ph.D. from Stanford University in 1977. After



CARL WIEMAN

seven years at the University of Michigan, he moved to the University of Colorado, where he holds positions in both the Department of Physics and the Joint Institute for Laboratory Astrophysics. His research has led to many discoveries in atomic physics and these, in turn, have resulted in numerous honors, including membership in the National Academy of Sciences in 1994, the Einstein Medal for Laser Science in 1995 by the Society for Optics and Quantum Electronics, and the Fritz London Prize in Low Temperature Physics in 1996 by the International Union of Pure and Applied Physics.

The E. W. Mueller Memorial Lectures in Physics are sponsored by the Department of Physics and honor Erwin Mueller, who was a member of the department from 1952 until his death in 1977. He invented the field ion microscope at Penn State, which enabled him to be the first person to see individual atoms.

Communications systems, network overview to be presented March 6

Moshen Kavehrad, professor of electrical engineering and director of the Center for Information and Communications Technology Research (CICTR), will present a public lecture at 2:45 p.m. Thursday, March 6, in 128 Sackett Building. The lecture, "Broadband Communications Systems & Networks: An Overview," will focus on the explosive growth in Internet applications which represents an increasing demand for multimedia interactive applications in future network architectures. An overview of hybrid networks and their infrastructures will be presented during the lecture, along with related research findings from the CICTR.

Kavehrad is the holder of the W. L. Weiss chair in information and communications technology at Penn State. He serves on the editorial board of the *International Journal of Wireless Information Networks*, and has published nearly 200 papers.

Kavehrad received his Ph.D. in 1977 in electrical engineering from Polytechnic University and was a professor of electrical engineering at the University of Ottawa before joining the Penn State faculty in January of this year.

March 19 lecture at Berks campus to mark Women's History Month

Just in time for Women's History Month, Penn State Berks, Berks-Lehigh Valley College hosts "Women and Race Relations in Early Pennsylvania" at 1 p.m. Wednesday, March 19, in the Perkins Student Center Theatre.

Alison Duncan Hirsch, assistant professor of American studies and history at Penn State Harrisburg, Capital College, contends that the language of race relations historically has been male. From 18th-century abolitionists

to the 20th-century civil rights movement, "brotherhood" has been the goal of those seeking racial equality.

Hirsch's talk looks at the role of women in the creation of American patterns in race relations by examining specific historical documents and incidents involving African American, Native American and European-American women interacting with each other and with men of different backgrounds. The event is free to the public.

New library wing construction to begin in April

In April, the University Libraries—specifically Pattee Library on the University Park campus—will begin a two-year transformation process with the help of a backhoe and a wrecking ball. That's when ground will be broken for the start of phase one of the construction of the new Paterno Library at Pattee, a project that is expected to vastly improve the facility from a users' point of view and provide much-needed space.

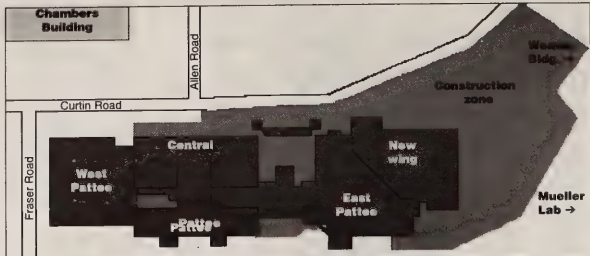
In the works for years, the \$26.5 million Paterno Library will add a new entrance from Curtin Road, a major five-story addition to the east, and a redesigned circulation space. The familiar glass facade of East Pattee (facing Weaver Building) will be removed to join the new addition and the facility will house the Special Collections Library, including Rare Books Room, University Archives/Penn State Room, Historical Collections and Labor Archives—and that's just the first floor. The other floors will be home to the Social Sciences and Life Sciences libraries, to name a few.

Preparation for the upcoming addition and renovation to Pattee Library is set to begin the first week of March. During this time, fencing will be erected around the construction site, including the areas directly behind and to the east of Central and East Pattee (roughly bounded by Curtin Road, the Weaver Building and Mueller Lab).

Initially, this first phase of construction will have the following effects:

- Parking lots will be closed at this time, as well as several pedestrian sidewalks on the east side of Pattee. The pedestrian walkway that passes under the connector between Central and East Pattee will be closed.

- The existing handicapped and staff entrance in the rear of the building near Curtin Road will be closed. A new one will be installed at the front door of East Pattee, and the existing handicapped



Groundbreaking ceremony is planned for April 25

To kick off the University Libraries' two-year construction project, a groundbreaking ceremony will be held on April 25. The creation of the Paterno Library and the renovation of Pattee will help to achieve better library space for users, collections, services and technology. It will be both a comfortable facility for students and scholars and a campus-wide center for the electronic flow of information.

For more information and updates on the

Libraries' building project, check out the construction Web site at <http://www.libraries.psu.edu/pubinfo/construction/>. Send your questions and comments to nacc@psu.edu.

In the coming months, *Interim* will continue to update readers on the Paterno Library project, as well as other construction projects across the University. Watch for more information on road closings and changes brought on by construction.

entrance in West Pattee will continue to be available. The handicapped parking spaces in the Yellow lot will be relocated near West Pattee.

- The drive-up book drop at the rear of Central Pattee (off Curtin Road) will be closed. Additional book drops will be set up outside of Pattee in the near future to allow patrons easy access for dropping off

materials. Books can continue to be dropped at points in East and West Pattee, as well as the Mathematics, Engineering, Pollock, Physical Sciences, and Earth and Mineral Sciences libraries on campus.

- All other services will continue undisturbed until further construction takes place. No changes in library hours are planned.

Mont Alto facility to be dedicated April 10

A new 8,000-square-foot Bookstore and Continuing Education Center at the Penn State Mont Alto campus was opened in January, replacing an 85-year-old structure that was demolished last year.

On April 10, campus officials will dedicate the new \$1.3 million facility, that was built to accommodate rising enrollment numbers, especially in continuing education. Over the last five years, Mont Alto's enrollment numbers have gone from 938 in 1991 to 1,205 in 1996.

The new Bookstore, partially funded by a grant from Barnes and Noble, will provide better access and space for all bookstore activities including the sale of Penn State clothing and memorabilia to the general public. The structure will also house student mailboxes and an automated teller machine and give students 24-hour access to this area. The old bookstore located in the General Studies Building will be renovated into a student computer lab and a new learning and technology center.

The Continuing Education Center will be home to two, state-of-the-art classrooms furnished in boardroom style. One of the classrooms will have the ability to be used as a mobile computer lab, complete with laptop computers. The Department of Continuing Education has moved their offices from their previous location in Conklin Hall to the new building.

"We desperately need this new facility. The classrooms will provide additional flexibility when scheduling classes, outreach programs and campus events," said William Curley, acting campus executive officer. "It will also allow us the opportunity to better serve all of our students."



Open for business

The Bookstore and Continuing Education Center at Mont Alto campus opened in January.

The structure that was taken down to make way for the new building, Double Cottage, was constructed in 1911 by the Pennsylvania State Forest Academy to house faculty. One family resided on either side of the cottage, including at one time, the director of the campus. In 1929, when the Forest Academy became a Penn State campus, the Double Cottage became faculty offices, a dormitory, storage, a gymnasium, and men's and women's locker rooms. It served as locker rooms until 1993 when the Multipurpose Activity Center was opened.

The dedication ceremony is planned for Thursday, April 10, at 6:30 p.m. The public is welcome to attend. For more information, contact Laura Frome at (717) 749-6112.

Campus master plan is back on the agenda

A group of University administrators, faculty, students, staff, community leaders and consultants will take a giant step toward developing a new comprehensive master plan for the University Park campus during a kick-off presentation and discussion next week.

They will meet from 10 a.m. to noon Wednesday, March 5, at the Penn State Scanton Hotel and Conference Center.

The configuration of campus buildings, walkways, open spaces and utility systems have been guided by a master plan first developed in 1907 and periodically updated as new opportunities emerged. But much has changed since its last major update in 1987, and much more will need to be evaluated in order to guide the future development of the campus into the 21st century.

In 1994, the University began a master planning process review and in 1995 laid the groundwork for ways to proceed, including guidelines for selecting a campus planning consultant. Last September, Johnson, Johnson & Roy Inc. of Ann Arbor, Mich., was selected to develop the plan. Richard Rietzkin, a partner in the firm, will be the senior planning consultant for the project and will give a presentation at the kick-off meeting.

Rietzkin will talk about his firm's approach to master planning, suggest a framework for the planning process and look for input from master plan participants on how to involve the whole University community. The master planning process is expected to take about a year and a half.

HUB

continued from page 1

"The architects have been very responsive to everyone's suggestions and are working right now to complete drawings for final approval," he said. "In the meantime, we had to balance construction and budget cost considerations, while maintaining the program and design concepts."

Designed by Williams Trebilcock Whitehead Architects of Pittsburgh, the HUB/Robeson project is expected to add approximately 90,000 square feet to the existing 154,000 square feet in the HUB and the Robeson Center's 9,000 square feet. Built in 1955, the HUB is the main student union at the University Park campus, serving more than 50,000 students, faculty, staff and visitors. The HUB was expanded in 1974 and remodeled in 1981, but over the last 15 years, there has been significant growth in the number of students, faculty and staff at the campus. Approximately 25,000 people are estimated to use the building each day, and nearly 7,000 events are scheduled each year in the facility.

The Robeson Cultural Center sponsored 561 events in 1995, attracting 24,000 participants. The center is located in a World War II building that was moved to the campus in the early 1950s and designated as a temporary student union building.

While design details are still being finalized, the current design proposes features such as an atrium with a pedestrian concourse, dedicated study spaces, redesigned food and business services, an expanded ballroom, information and computer services, and improved access for users with disabilities. The attention to detail in the design process is essential because of the important role of a student union building in campus life, Millar said.

A union serves as the community center of a university for all students, faculty, staff, administrators, alumni and visitors. In addition to the services provided, the union brings people together in educational programs and informal settings, according to Millar.

"In addition, a cultural center encourages appreciation and understanding of diverse cultures, as well as supports cross-cultural interactions among students of all races and ethnicities," he said.

Final plans are expected to be presented to the Board of Trustees at its March 21 meeting in Hershey. The budget is currently estimated at \$29 million, and the schedule calls for construction to begin in late spring with targeted completion by the start of fall semester 1999.

There will be one more public forum on the project design this semester, and a groundbreaking ceremony is tentatively scheduled for May 2.



Row for shore

Unseasonably warm temperatures last week melted most of the accumulated snow and cataloged the intersection of North University Drive and Services Road on the University Park campus into a small lake.

Photo: Greg Grieco

State College attorney, honorary alumnus dies

Delbert J. McQuaide, Penn State's general counsel who helped guide and direct the University through virtually every major decision for the past 25 years, died Feb. 19 at the age of 60.

McQuaide, who just this month was named an Honorary Alumnus of Penn State — the highest award given by the Alumni Association to a non-alumnus, was a valued confidante and adviser to Penn State presidents, trustees and administrators.

For more than a quarter of a century Penn State has turned to McQuaide, a prominent State College attorney, for advice on a wide range of issues. He has been involved in decisions relating to the development of The Bryce Jordan Center, several expansions of Beaver Stadium and the expansion of the Palmer Museum of Art, to name just a few. The governance of the University; changes in policies affecting students, contracts, personnel issues and many more. In addition, he is the author of the governance documents by which the

University operates — documents recognized as models nationwide.

A member of the law firm McQuaide Blasko Schwartz Fleming & Faulkner Inc., McQuaide earned his undergraduate degree from Juniata College and his law degree from New York University, where he was a Root-Tilden Scholar. He was admitted to the New York Bar in 1961 and the Pennsylvania Bar in 1964. He served on the boards of Quaker State Corp. and Mid-State Bank, and was past president of the Centre County Bar Association and chair of the board of trustees of Juniata College.

McQuaide is survived by his wife, Barbara R.; his daughter, Jennifer Lockett of Perkasie, Pa.; two sons: Mark A. of Bear, Del., and James T. of Pleasant Gap, Pa.; and four grandchildren.

Memorial contributions may be made to the Delbert J. McQuaide Distinguished Lecture in History fund at Juniata College, 1700 Moore St., Huntingdon, Pa. 16652, or to the State College Presbyterian Church.

Faculty/Staff Alerts

Learn more about LIAS

The University Libraries are offering the following series of seminars during March to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM. LIAS searching techniques that enable users to maximize their searching power also will be presented.

To register or learn more about the seminars and their content, send an e-mail to signup@psuilibs.psu.edu. If you have any additional questions, contact **Doris Herr** at (814) 863-0325. Information on the seminars also can be found by typing **HELP WORK-SHOP** when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.

■ Penn State Libraries Catalog in LIAS

Overview of The CAT in LIAS and hands-on practice: March 19, from 1-3 p.m. All sessions take place in Tower Room 402, Central Pattee Library.

■ **Beilstein CrossFire** (the electronic version of the Beilstein Handbook of Organic Chemistry)

March 10, from 8 to 10 a.m., Room 5, Central Pattee Library

■ Education databases

March 17, from 10 a.m. - noon, Tower Room 402, Central Pattee Library

■ Electronic Text in the Humanities

It is now possible in the humanities to use computer technology to search large bodies of primary source material for combinations of words or phrases. Participants will receive an overview of textual databases available: March 27, 10 a.m. - noon, Tower Room 402, Central Pattee Library

■ Literature databases

March 20, 10 a.m. - noon, Tower Room 402, Central Pattee Library

■ Maps and Spatial Data on the Web

This hands-on seminar provides an overview of cartographic and spatial data. March 6, 10 a.m. - noon, Tower Room 402, Central Pattee Library

■ Music (electronic resources)

March 4, 10 a.m. - noon, Tower Room 402, Central Pattee Library

■ NEXIS databases

(Note: LEXIS/NEXIS is available only for Penn State faculty, staff and students engaged in course-related research. Participants must present a valid Penn State ID at the seminar) to be held March 5, from 10 a.m. - noon, Tower Room 402, Central Pattee Library

■ Spanish and Latin American Resources

March 18, from 10 a.m. - noon in Tower Room 402, Central Pattee Library

News in Brief

Adult Children of Alcoholics

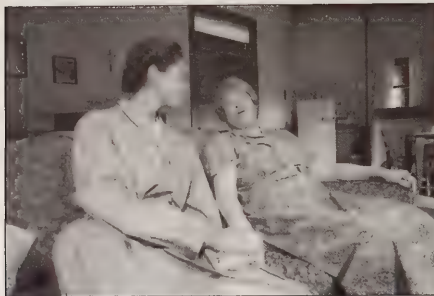
This support/discussion group will meet at University Park campus every Thursday in March from noon to 1 p.m. in the Harshbarger Room of the Eisenhower Chapel. No prior registration is required, and there is no cost.

All faculty, staff and students are welcome.

The

ARTS

AT PENN STATE



Dress rehearsal

Ruth (Cynthia Baldessaro) and Maria (Frances Foster) discuss the death of an infant in the play *A Raisin in the Sun*, directed by Charles Dumas, associate professor of theatre arts. The Penn State University Resident Theatre Company production ends March 1. For tickets, call the Arts Ticket Center at (814) 863-0255.

Photo: Greg Grieco

Flute and percussion duo

The Armstrong Flute and Percussion Duo, consisting of **Dan C. Armstrong**, professor of percussion, and **Eleanor Duncan Armstrong**, associate professor of flute, will perform a free recital of works for various combinations of flutes and percussion instruments at 2 p.m. Sunday, March 2, in the School of Music Recital Hall on the University Park campus.

Featured will be the world premiere of a new work by University of Texas composer **Dan Welch**. Assisting the duo will be local professional percussionist Victoria Daniel.

Martha Reeves and The Vandellas to perform

Motown legend Martha Reeves and The Vandellas will star in "Ain't Misbehavin'" at 8 p.m. Wednesday, March 5, and Thursday, March 6, in Eisenhower Auditorium on the University Park campus. The concert continues the Bright Lights series sponsored by the Center for the Performing Arts.

Martha Reeves and the Vandellas, best known for their hit songs "Dancing in the Street," "Nowhere to Run" and "Heat Wave," lead the cast in paying tribute to Fats Waller's music including blues, swing, jazz and stride piano songs. This Fats Waller Broadway musical brings to life the glamour, the spirit and the excitement of the swingin' '30s in Harlem. "Ain't

Misbehavin'" was a success when it opened on Broadway in 1978. It ran for almost four years on Broadway and is the only show in history to win Tony, Drama Critics, Drama Desk, Obie and Grammy awards.

Tickets for general admission are \$32.00, \$27.50 and \$23.50; students \$27.50, \$23.50 and \$20.50. For tickets or more information, contact the Arts Ticket Center, open Monday through Friday, from 8:30 a.m. until 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Bach's Lunch

The Saxophone Ensemble, directed by professor **Dan Yoder** of the School of Music will perform at the free Bach's Lunch concert at 12:10 p.m. Thursday, March 6, in the Helen Eakin Eisenhower Chapel on the University Park campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish. The Saxophone Ensemble consists of 15 saxophone majors from Yoder's studio.

Audience members may take a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Flute Ensemble

The 10-member Penn State Flute Ensemble, directed by **Eleanor Dun-**

can Armstrong, associate professor of flute, will present a free program of chamber music for flutes at 8 p.m. Thursday, March 6, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

Employing a wide range of instruments in the flute family, the ensemble will perform works drawn from the renaissance, baroque, classical and contemporary repertoire.

Odyssey on WPSU

On the March 2 episode of *Odyssey Through Literature* host **Leonard Rubinstein** and **John Fyler**, chair of the English Department at Tufts University, discuss the plight of the poet as historian — or as pandering.

Fyler discusses with Rubinstein his article "Fabrications of Pandarus," which analyzes the Chaucer tale "Troilus and Cressida."

Odyssey Through Literature is produced by the Penn State Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU-91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://juncy.le.psu.edu/comp/lit/odyssey/odyssey.htm>.

Concert and commentary

The Cleveland Duo, joined by saxophonist **James Umble**, will combine musical performance with lively commentary for a free performance at 8:15 p.m. Tuesday, March 18, in Room K-1, Costos Classroom Building on the Penn State Hazleton campus.

The group, consisting of pianist **Carolyn Warner** and violinist **Stephen Warner**, blends well-known classical masterpieces with new compositions. The two have been members of the Cleveland Orchestra since 1979. Umble is associate professor of music at Youngstown State University's Dana School of Music.

A look back

The history of the "largest student-run philanthropy in the world" — Penn State's Dance Marathon — is on display through April in Pattee Library's Penn State Room and main lobby in an exhibit titled "Honoring: Celebrating 25 Years of Dance Marathon." The exhibit, created by the University Archives/Penn State Room, takes a look at not only the dancers, but also the behind-the-scenes work involving more than 1,200 student volunteers. The exhibit includes emotional letters of thanks from families who have benefited from the money raised by the "Thon." Also on display are Dance Marathon buttons from different years, newspaper clippings, and of course, photographs of the dancers themselves. The 1997 Dance Marathon, held Feb. 14-16, raised more than \$1.5 million.



BRYCE JORDAN CENTER

Kiss to appear March 29

The rock group Kiss will appear at The Bryce Jordan Center at 7:30 p.m. Saturday, March 29. Tickets are \$40 and \$28.50 for reserved seating.

Gene Simmons, **Paul Stanley**, **Peter Criss** and **Ace Frehley** were reunited at the Kiss Unplugged session on MTV. Following their successful release of the Kiss Unplugged CD, the band decided to tour. Formed in 1972, Kiss used make-up to gain attention, beginning a legacy lasting almost 25 years.

Collins visits March 30

Phil Collins will appear at The Bryce Jordan Center at 8 p.m. Sunday, March 30. Tickets are \$45 and \$28.50 for reserved seating.

Collins was almost 30 years old when his first single, "In the Air Tonight," became a top 20 hit in the U.S. His history with Genesis is well documented, from their art-rock beginnings to their rise to multi-platinum, stadium-packing status. Collins launched his solo career with "Face Value" in 1981, followed by several others including his new album, "Dance Into the Light." He has won six Grammy Awards.

Sesame Street Live on stage April 1-2

Sesame Street Live "Let's Be Friends" will appear at The Bryce Jordan Center at 7 p.m. Tuesday, April 1, and 10:30 a.m. and 7 p.m. Wednesday, April 2. Tickets are \$13.50 and \$11.50 for adults, \$12 and \$10 for children ages 1 to 10 for reserved seating. There will be an opening night special with all seats priced at \$8.50.

This story teaches kids about helping others and shows them that everyone is different and special in his or her own way.

Upcoming events

■ **March 2:** Metallica with Corrosion of Conformity, 7 p.m. Tickets: \$35.50 and \$25.50 for reserved seating.

■ **March 7-9:** 13th Annual Builders Association Home Show, Friday, noon to 9 p.m.; Saturday, 10 a.m. to 9 p.m.; Sunday, noon to 5 p.m. Admission: \$3, parking free.

■ **March 22-23:** Thruendational Monster Trucks, Saturday, 8 p.m.; Sunday, 2 p.m. Tickets are \$12 for reserved seating.

■ **April 4:** Garth Brooks, 8 p.m. Ticket information to be announced.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, February 28
Kern Graduate Commons, noon, Kern Lobby
Concert titled "Appalachian Spring."
School of Music, 8 p.m., Eisenhower Auditorium. Philharmonic Student Concertos with Pu-Qi Jiang, conductor.

Saturday, March 1
Nittany Valley Symphony, 3 p.m., Eisenhower Auditorium. "The Mysteries of Music" For tickets, phone (814) 863-0255.

Center for the Performing Arts, 8 p.m., Schwab Auditorium, "Los Angeles Piano Quilts." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student Recital presents Amanda Siliker, voice.

Sunday, March 2
School of Music, 2 p.m., Recital Hall. "The Armstrong Flute & Percussion Duo" with Eleanor Armstrong, flute, and Dan Armstrong, percussion.

Palmer Museum of Art, 2 p.m. Gallery Talk presents Katherine Bentz on "Italian Baroque Painting at the Palmer Museum."

Odyssey Through Literature, 6:30 p.m., WPSU. Leonard Rubinstein and John Fyler discuss "Fabrications of Pandarus," which analyzes the Chaucer tale "Troilus and Criseyde."

School of Music, 8 p.m., Recital Hall. Student Recital presents Kyle Glaser and Sue Kearney on the saxophone.

Monday, March 3
School of Music, 8 p.m., 122 Music II. Percussion Studio Recital.

Wednesday, March 5
Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Ain't Misbehavin'," through March 6. For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Faculty Jazz.

Thursday, March 6
School of Music, 8 p.m., Recital Hall. Flute Ensemble.

SEMINARS

Friday, February 28
Palmer Museum of Art, 2 p.m., Palmer Lipton Auditorium. Glenn Williamson, curator, on "Allan Sekula and the Documentary Tradition."

Biology, 2:30 p.m., 8 Mueller Laboratory. Vivian Irish on "Genetic Analysis of Floral Development in Arabidopsis."

Economics, 3:30 p.m., 428 Kern. Linda Goldberg on "Employment vs. Wage Adjustment and Exchange Rates: A Cross



On stage

Martha Reeves and the Vandellas will perform in "Ain't Misbehavin'" March 5 and 6 in Eisenhower Auditorium on the University Park campus. For tickets, call (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Country Comparison."

Saturday, March 1

Science, 11 a.m. to noon, 111 Wartik Laboratory. Jeffrey A. Kurland on "The Evolution of the Mind: Speculations from Contemporary Biology Based on the Musings of a Young British-Victorian Naturalist."

Monday, March 3

Continuing and Distance Education and the College of Education's Adult Education Program, 11:45 a.m. to 1 p.m., 502 Keller. Dale A. Moore on "Continuing Professional Education Program for Veterinarians."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Carl Mitcham on "Engineering Morals and Ethics."

Gravity Center, 2 p.m., 339 Davey Laboratory. Domenico Giulini on "Determination and Reduction of Large Deformation." Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Jim Anderson on "Quantum Monte Carlo."

Philosophy, 4 p.m., 124 Sparks. Richard Lee on "Grasping the Universe: Ordo as the Fundamental Presupposition of Aquinas' Thought."

Tuesday, March 4

Nutrition, 4 p.m., S-209 Henderson. Beverly Lindsay on "Perspectives on International Program Opportunities at Penn State."

Geoscience, 4 p.m., 112 Walker. Martin Slute on "Glares Temperatures Derived from Noble Gases in Groundwater."

Education, 7:30 p.m., Kern Auditorium. George Albee to speak on educational psychology.

Women's Studies, 7:30 p.m., 101 Kern. Temma Kaplan on "Crasy for Democracy: Women in the Environmental Movement."

Wednesday, March 5

Russian and East European Studies, noon, 124 Sparks. Elena Galinova on "Bulgaria in the Nineties: The Rough Road to Changes."

Gerontology Center, 12:15 to 1:15 p.m., The Living Center, 110 Henderson. Anne Edwards on "Employed Caregivers of Cognitively-impaired Elderly Relatives: An Application of Role Theory" and Shannon Jarrott on "Effects of Day Care on Time Estimates of Employed and Non-employed Caregivers."

Center for Women Students, noon to 1 p.m., CWS Resource Room, 120 Boucke. Sab-

rina C. Chapman on "What is meant by a 'chilly classroom climate?'"

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. Donald E. Vogt on "Physical and Mechanical Properties of Ice."

Physics, 8 p.m., 112 Kern. Carl Wieman on "The Chilling Story of an Atomic Identity Crisis: Bose-Einstein Condensation at 1 Millionth of a Degree above Absolute Zero."

Thursday, March 6

Physics, 3:30 p.m., 101 Osmond Laboratory. Carl Wieman on "Bose-Einstein Condensation in an Ultracold Gas."

Food Science, 4 p.m., 117 Borland Laboratory. Harvey Manbeck, Virendra Puri and Paul Walker on "Collaborative Activities in Food Engineering."

Computer Science and Engineering, 4 p.m., 302 Pond Laboratory. Roldan Pazy on "C++ Library Design for Matrix Computations on High Performance Architectures."

EXHIBITS

HUB Art Alley Cases

Office of International Studies presents "International Festival" through April 6.

HUB Sculpture Corner
"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Photographic work of David Driscoll, March 4 through April 6.

Kern Flat Cases

Jewelry by Lavelle Piemme, March 4 through April 6.

Kern Tall Cases

Handwoven and handspun items by The State College Weavers Guild, March 4 through April 6.

Palmer Museum of Art

"Dismal Science: Photo Works by Allan Sekula, 1972-1996," through March 16.

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 15.

Zoller Gallery

School of Visual Arts, "Undergraduate Junior Exhibition," through March 28.

Reflects an international perspective.

For a full listing of University Park activities, including sports events, go to the Web at URL <http://www.psu.edu/calendar/>

FEBRUARY 28 - MARCH 9

Bookshelf

Christine Avery and Diane Zabel, social science librarians in the University Libraries, have written *The Quality Management Sourcebook: An International Guide to Materials and Resources* (London: Routledge, 1996). The sourcebook traces the evolution of quality management, examines its applications in manufacturing and non-manufacturing settings and explores its future. It is the first in-depth, international guide to the most useful material (including books, articles, software and training materials) and sources of information. It will be of interest to people in industry, government and academia. The book can serve as a desk reference for organizations implementing or actively involved in quality management.

G.J. Babu, professor of statistics, and Eric D. Feiglson, professor of astronomy and astrophysics, are

co-authors of a new book titled *Astrostatistics*, published by Chapman and Hill.

Astrostatistics is the first comprehensive overview of the emerging field of the interface between astronomy and statistics. The book discusses the vast range of challenging statistical problems that modern astronomers encounter. The first half of the book introduces the subject of astronomy to statisticians and the subject of statistics to astronomers. The second half of the book is organized by statistical topic. Each chapter provides examples of problems arising in recent astronomical research and emphasizes challenging methodological issues. An extensive bibliography assists readers in pursuing the issues in more detail.

Simon Bronner, distinguished professor of folklore and American studies and coordinator of the Amer-

ican studies program at Penn State Harrisburg, is the author of *In Popularizing Pennsylvania: Henry W. Shoemaker and the Progressive Uses of Folklore and History*, the first full-length biography of Shoemaker.

Shoemaker (1880-1958), who devoted his life's work to preserving Pennsylvania's cultural and natural heritage, lives on in the legends he helped to promote, such as that of the Indian princess "Nittany Nee," for whom Central Pennsylvania's Nittany Mountain is supposedly named. He also was instrumental in creating Pennsylvania's noted system of parks and forests and the Pennsylvania Historical and Museum Commission.

Bronner's book, published by The Penn State Press, includes never-before-available private papers and interviews with many people who knew Shoemaker.

Highlight on Undergraduate Education

High schoolers get introduction to college life

By KAREN WAGNER
Public Information

Promising young high school students are conducting research at Penn State and getting familiar with academic life as a result of the Minority Research Apprenticeship Program (MRAP) in the College of Health and Human Development.

Each year, academically promising 11th- and 12th-grade students with an interest in the biomedical sciences compete for a place in the eight-week summer program that for many, leads to continuing research throughout college and graduate school.

"Each student in the program is assigned a faculty mentor who is conducting research over the summer and attends weekly research seminars," Daniel Trevino, assistant dean for minority programs for the College of Health and Human Development, said. "This year we expect to be able to accept 10 students and two high school teachers who will also help promote careers in science research to other students."

Approximately 63 percent of the participants enroll and continue their research at Penn State. Some continue at other universities.

Monique Jones and Renee Clemente of Philadelphia describe their experiences as life shaping.

"I already knew I wanted to attend Penn State," said Jones, who heard about the program from her West Philadelphia High School guidance counselor. Her research in MRAP focused on sports medicine and engineering — two fields she was interested in pursuing in college. Under the tutelage of Peter Cavanaugh, professor of locomotion studies and biobehavioral health, she was able to test the waters working as an apprentice at the Center for Locomotion Studies. Jones, who is now a freshman, is pursuing her studies in engineering at Penn State, and continues to work at the center's lab on a part-time basis.



Hands-on learning

Lorraine M. Mullinger, program coordinator for the Center for Locomotion Studies, left, assists research apprentice Monique Jones.

Photo: Greg Grieco

"Over the summer I had the opportunity to work with computers. It helped me decide that becoming a computer engineer is something I want to do," said Jones, who advises interested students to "study hard."

Jones is following her own advice. Hard work paid off when she made the dean's list last fall.

"Nationally, minorities continue to be severely underrepresented in all health professions that require a bac-

calaureate or higher degree," Trevino said. "MRAP is specifically designed to stimulate entries in these fields and encourage students to work toward professional careers in health."

Renee Clemente is another program success. She first heard about MRAP when it was announced over the loudspeaker at her Upper Merion High School.

"It seemed like a good opportunity," she said. "I had been accepted at Penn State in the fall, but my parents couldn't afford to send me in the summer." Clemente applied, was accepted and participated in a food study in Penn State's nutrition lab where she learned to do research under the guidance of Barbara Rolis, professor of

nutrition and holder of the Guthrie chair in nutrition.

"It was really a good experience — the greatest thing ever," said Clemente, who is "definitely interested" in pursuing a graduate degree.

Applications for MRAP were mailed in January to 150 Pennsylvania high schools with high minority enrollments. Students must apply by March 1 and are selected based on their interest in research, their high school grade point average, scholastic aptitude scores and the recommendations of high school teachers and counselors. Preference is given to students who plan to attend Penn State.

To date, Penn State has enrolled 60 out of 98 MRAP participants in baccalaureate degree programs. One former student completed a master's degree in audiology. Others are in the process of completing master's degrees in engineering and education. One has entered optometry school and three have entered medical school. Three former participants have entered doctoral programs in clinical psychology and neuroscience, and one has completed a Ph.D. in microbiology and immunology.

"The National Institutes of Health, which provides the bulk of the funds for MRAP, recognizes that a large segment of our population, especially those groups that are low income and reside in urban areas, suffer disproportionately from death and illness," Trevino said. "MRAP gives the young people from these areas an incentive to begin preparing for a professional career that will enable them to help their home communities. Penn State also benefits from the enthusiastic and capable research accomplishments of these young scientists."

Promotions

Staff

Lori Baney, associate director in Division of Development and Alumni Relations.

Craig D. Boughton, manager, Facility and Material Services in Continuing and Distance Education.

Helen G. Brennan, director, annual giving in Division of Development and Alumni Relations.

L.S. Boor, computer support facility coordinator in Research and Graduate School.

Jacqueline M. Calvin, network coordinator at Penn State Schuylkill campus of the Capital College.

Richard L. Clark, staff assistant VI in College of the Liberal Arts.

Rachael A. Diamond, manager, Financial and Administrative Services in Continuing and Distance Education.

Allen Fasnacht, nurse manager at The Hershey Medical Center.

Tracy L. Gross, computer support assistant in Continuing and Distance Education.

John W. Hanold, proposal and grant assistant in Research and Graduate School.

Elizabeth M. Henson, staff assistant V in Sports Medicine.

Kathleen K. Hevey, staff assistant VII at Penn State Great Valley.

Todd F. Holbrook, network support specialist in Research and Graduate School.

Kathryn L. Holsopple, staff assistant V in Continuing and Distance Education.

Carol A. Julg, staff assistant IV at Penn State Abington College.

Corry L. Kutzinger, staff assistant VIII in College of Arts and Architecture.

Carol Lewis, student aide adviser in Vice Provost and Dean for Enrollment Management and Administration.

Gengrong Lin, technician/research at The Hershey Medical Center.

Sharon Ludwig, staff assistant VI at The Hershey Medical Center.

Holly A. Mack, research support technician II in College of Health and Human Development.

Jack E. McMahon, associate director I in Division of Development and Alumni Relations.

Amy L. Nace, staff assistant VI at The Hershey Medical Center.

Nancy L. Norris, staff assistant VI in Division of Development and Alumni Relations.

Steven O. Pierce, senior support and training analyst in Computer and Information Systems, Center for Academic Computing.

Carolyn Saona, student aide adviser in Office of Vice Provost and Dean for Enrollment Management and Administration.

Laurie M. Salepeck, information technology associate in the Eberly College of Science.

Sherry L. Schnarrs, staff assistant V in Sports Medicine.

Kelly L. Seesholtz, staff assistant V at The Hershey Medical Center.

Jodi L. Stover, administrative assistant I in Research and Graduate School.

Suzanne E. Trosko, senior data management analyst at The Hershey Medical Center.

Kathy L. Tyson, research support associate at The Hershey Medical Center.

Adora A. Way, student affairs specialist in Business Administration.

Partnership between Dance Marathon, Four Diamonds Fund is couple's legacy

The founders of the Four Diamonds Fund, inspiration for the nation's largest student-run philanthropic event, have been named honorary alumni of Penn State. Since its beginning in 1972, the Four Diamonds Fund has received more than \$10 million, including the more than \$1.5 million raised by this year's Dance Marathon.

It all started a quarter of a century ago when a group of fraternity and sorority students decided to hold a dance marathon to raise money for charity. That same year, Charles and Irma Millard lost their son Christopher to leukemia. In his memory, they set up a fund to assist the families of children suffering from cancer and to promote education and research on pediatric cancer at The Hershey Medical Center.

The Millards named the Four Diamonds Fund for an essay written by their son shortly before his death. Christopher wrote about the exploits of a knight named Sir Millard who earned the four diamonds of courage, wisdom, honesty and strength in order to gain his freedom. Early on, the Millards raised money for the fund themselves.

"They went to friends and neighbors, small businesses and community organizations, and raised about \$6,000 that first year," Dr. John E. Neely, chief of pediatric oncology/hematology at Hershey, said. "We didn't have many pediatric cancer patients back then, so whenever somebody had bills not covered by insurance, that money paid them."

The fund grew slowly, aided by an annual mailing to past contributors. By 1976, the fund earned about \$40,000, almost all from small contributions.

The Dance Marathon also grew slowly, raising money for some local charities. In 1977, the Dance Marathon's charity of choice was The Four Diamonds Fund.

"In that first year, they almost doubled the fund," Neely said. The total has grown each year and the event is now regarded as the largest student-run philanthropy in the nation.

The Millards are a strong driving force behind this success. They have been to countless Dance Marathons since 1977, inspiring those involved.



Then 97

Tod Frankenstein creates a baby powder cloud in preparation for the dancers' quick bathroom break and rubdown during the Dance Marathon. This year, the event raised more than \$1.5 million for the Four Diamonds Fund at The Hershey Medical Center.

Photo: Greg Grieb

"The dancers thank us for starting the fund and for being there, but we feel grateful to them," Irma Millard said in a telephone interview from her home in Port Townsend, Wash. "To us it's a pleasure when they're with all of those young people. They're just marvelous."

When the Millards started the Four Diamonds Fund, they hoped it would make a difference. At the 25th anniversary celebration this month where they were named honorary alumni of Penn State, they got to see just how big a difference it has made.

"There were a lot of people there who we first saw as bald, sickly, frail children. Now, they're all grown up, healthy, with full heads of hair and doing very well," Irma Millard said. "I think now we're having more successes than failures."

Neely agrees.

"In 1975, the survival rate for children with cancer was about 70 percent. We've had an almost linear increase in survival of 1 percent to 1.5 percent a year, and now the overall survival rate is about 80 percent to 85 percent," he said.

Neely estimates that roughly 1,000 children have been treated for cancer at Hershey, with half still receiving some treatment. Between 200 and 250

have died, and the rest are considered to have been successfully treated.

The doctors at Hershey are working on getting the survival rate even higher, and the Four Diamonds Fund is helping to make that possible.

The Millards have had an indelible effect on the overall view of how children are treated," Neely said. "They have been like bulldogs, relentlessly following the mission of the fund, which is that this money goes to children with cancer at The Hershey Medical Center."

Charles Millard taught music at Elizabethtown High School from 1959 until he retired in 1984. Irma Millard taught classical ballet at Elizabethtown College, the Elizabethtown Studio of Fine Arts, the Lancaster Institute of Fine Arts and the Dancers Workshop. Former residents of Elizabethtown, the Millards moved to Lancaster in 1979 and to Port Townsend, Wash., in 1994.

The Honorary Alumni Awards have been given by the Penn State Alumni Association since 1973 to honor people who are not graduates of Penn State, but who have made significant contributions toward its welfare, reputation or prestige. With the naming of the Millards, Penn State now has 48 honorary alumni.

EMPLOYEE BENEFITS

A regular column provided by the Office of Human Resources

Tax-deferred annuities

As the deadline for filing federal income tax returns approaches, faculty and staff are reminded that tax-deferred annuities (TDAs) provide an excellent opportunity to help individuals save for the future, while sheltering some of their income from current federal income taxes. Taxes on the amounts deposited, as well as the interest earned or appreciation realized, are deferred until the money is withdrawn, usually at a more favorable tax rate.

All full-time faculty and staff and part-time faculty and staff enrolled in either of the University's retirement plans may elect to contribute additional money to a TDA as a supplement to their basic retirement plans. Participation in a TDA may begin at any time. Contributions are made through payroll deductions, and a minimum contribution of \$25 per month or \$12 per biweekly pay is required. Contributions also may be expressed as a percentage of gross pay rather than a fixed dollar amount. Part-time faculty and staff must express their deductions as a percentage of pay.

Previously, TDA participants were restricted to only one election of a contribution amount or percentage in any one calendar year. Recent legislation lifted that restriction and participants now are free to change the amount of the TDA contribution as often as they choose. Because of the tax advantages of TDAs, the Internal Revenue Service limits the total amount that may be contributed each year.

The Employee Benefits Division provides a Tax-Deferred Annuity Summary, which includes more information about the five companies authorized to offer TDAs at Penn State, and the investment options. The summary is available from the Employee Benefits Division and also can be accessed at the Office of Human Resources web site <http://www.ohr.psu.edu>.

If you have specific questions regarding your eligibility to participate, your maximum annual contribution, IRS regulations or changes in TDA companies, contributions, etc., contact the Employee Benefits Division at (814) 865-1473 or e-mail ben@psu.edu.

Private Giving

Software donation bolsters engineering programs

Penn State Harrisburg students are now using the latest estimating computer software program which takes the guesswork and labor out of the complicated project-bidding process, thanks to a donation from Credomet Inc., a Maryland-based company.

Michael J. Tyler, principal of Credomet, recently donated "Credo," a one-of-a-kind interactive communication software network to Penn State Harrisburg. This software makes the bidding process easier and will keep students in the Structural Design and Construction Engineering Technology Program up to date. The gift to the college is valued at \$50,000.

Credo, developed by Credomet Inc. of Baltimore, enables

general contractors to control the basic module, giving them access to all data in the system. Using the basic module, the general contractor and project managers can break up the construction project into its various jobs and send each out for bids from subcontractors and suppliers. With a few keystrokes, the contractor can send the request for bid to literally thousands of potential bidders using the Credo system.

Subcontractors and suppliers use the support module of the Credo system, which allows them to receive bid requests and respond. The bid is returned electronically and can be tracked and evaluated by the general contractor. The software program analyzes and collates the bids, collecting them and allowing hand-entered bids.

■ Women's History Month

Variety of activities planned at all University locations

Beginning next week, Penn State will celebrate Women's History Month with lectures, films, discussions, readings and receptions at campuses across the state. The following programs are open to faculty, staff, students and the community.

ALTOONA

— March 3 through May 12: Light Bearers: Terra Cotta Tiles and Sculptures exhibit by **Terry Johnson** in the Sheetz Gallery on campus (call for gallery hours).

BEAVER

— Tuesday, March 4: At 7:30 p.m., a "History Profile on Margaret Sanger" by **Robert Szymczak**, professor of history, in Room 16. **Study Learning Center.**

— Wednesday, March 5: Speaker **Anita Sincic-Maler** from the Pennsylvania Education Association on Eating Disorders will discuss eating disorders at 8 p.m. in Harmony Hall Lobby.

— Tuesday, March 18: At 8 p.m. in the Student Union Lounge, Citizens Against Crime Self-Defense Seminar.

— Wednesday, March 19: Maestrom Jazz Percussion Ensemble will perform at 7:30 p.m. in the Study Learning Center Auditorium.

— Thursday, March 20: Olympic Gold Medalist **Julie Smith**, infielder for the U.S. Women's Softball Team, will speak at 7 p.m., Study Learning Center Auditorium.

— Monday, March 31: Speaker **Lisa Patch** from the Family Planning Research Office on "Rage: Women's Hospital," will discuss "Women's Health Issues: Update on Emergency Contraception" at 8 p.m., Harmony Hall Lobby.

— Date to be announced: "Aging Women in the Media" talk given by **Jane Crawford**.

BERKS

— Wednesday, March 19: A free lecture, "Women and Race Relations in Early Pennsylvania," by **Alison Duncan** will discuss at 1 p.m. in the Perkins Student Center Theatre.

DELAWARE COUNTY

— Thursday, March 6: A rousing celebration of music, dance and film, "Sisters with Voices," explores Afro-American history through the triumphs of the incredible divas of black music; 12:30-1:30 p.m., Large Conference Room, Commons.

— Monday, March 17: **Lillian Green** from the North Institute will focus on the history of the Civil Rights era as a grassroots movement through photography and poetry. Adapted from "Through the Lens: Civil Rights and Film and Photography," 12:30-1:30 p.m., Student Lounge, Main Building.

— Wednesday, March 19: "Body Image/Body Dissatisfaction: The Search for the Perfect Body" at 12:30 p.m. in the Large Conference Room, Commons; a look at the Reinforce Center — which has made a difference in the lives of thousands of women who have struggled with their body image.

— Thursday, March 20: **Wanjiru Kamau**, formerly of the Delaware County Campus Student Life Office, shares her stories from interviewing Akikiyu women of Kenya in the fall of 1996 in a talk titled "Menopause and Sexuality: The Akikiyu Women of Kenya," 11:30 a.m. to 1 p.m., Large Conference Room, Commons.

— Thursday, March 27: "Paris in the Spring Time," the Women's Commission luncheon, at 11:30 a.m. to 1 p.m., Large Conference Room, Commons. Join the Commission as it announces the Delaware County campus "Woman of the Year" award.

DUBOIS

— Wednesday, March 5: **Josephine Randolph**, a senior LAS major with a history minor at DuBois campus, will present the story of Ida M. Tarbell, the nation's first woman investigative reporter who played a key role in uncovering the Standard Oil monopoly which spurred ground-breaking anti-trust legislation in the early 1900s. The play is based on Randolph's original research; noon to 1 p.m., Hiller Building Lunch Lounge.

— Saturday, March 5: Introduction to the Internet, a beginners' seminar. Learn to surf the Net while learning more about women and their many-faceted roles around the world and throughout time. The seminar is set for 9:30 a.m. in 103 Swift Building with content geared to women's interests in celebrating Women's History Month. Preregistration is not required but appreciated. Contact: **Catherine Lee** at (614) 375-4756.

— Thursday, March 20: **Diana Hume George**, author and professor of English and women's studies at Penn State

Erie, The Behrend College, will present a reading of her original work beginning at 3 p.m. in Room 148 Sneal.

— Thursday, March 27: "Weathering the Storm: Women's Lives During the American Revolution," presented by **Mary Ann Barber**, instructor in history and political science at the University of Pittsburgh-Titusville, at 1:30 p.m. in the Small Conference Room.

— Monday, March 31, from noon to 1:30 p.m.: The Book Discussion Group is reading Margaret Alwood's *The Edible Woman* for a round table discussion in the Hiller Building Lunch Lounge.

— In addition, to celebrate the month, head Librarian **Catherine Lee** will mount a photo display, "DuBois Campus Women Across the Years," in the library featuring photos of women faculty, staff, and students from the 1940s on. She is developing the display from photo archives housed in the library and in university relations.

GREAT VALLEY

— Thursday, March 6: Film on women's issues from noon to 2 p.m. in room 230; brown-bag lunch.

— Monday, March 24: Luncheon from noon to 2 p.m. featuring speaker **Sophia Wisniewska**, Administrative Fellow at University Park. She will discuss "On the Edge of Time: Russian Women Creating the Next Millennium."

PENN STATE HARRISBURG

— Monday, March 5: Lectures on Social Issues (All in Hallway Lounge), **Susan Rankin**, senior diversity planning analyst, will give three talks: "Coming Out to Your Family" at noon; "Recreation/Athletics and the Gay Athlete" at 1 p.m.; and "Hierarchy of Oppression" at 4 p.m.

— Wednesday, March 5: **Allida Black**, assistant professor of history at the University of Baltimore, will discuss "Turf Battles in the White House: The Roosevelts, Reagans and Clintons and the Rise of the Modern Presidential Couple," at 8:30 a.m., Penn State Downtown Center.

— Wednesday, March 19: **Ntozake Shange**, noted playwright, novelist, poet, performer and author of the play "For Colored Girls Who Have Considered Suicide (The Rainbow is Enuf)," will give a talk/round 3:30 to 4:30 p.m. and again from 7 to 8 p.m. in the Gallery Lounge.

— Thursday, March 20: At Penn State Harrisburg Eastgate Center **Kenneth C. Wolensky** will discuss "Creating a Water Movement: The ILGWU (International Ladies Garment Workers Union) in Northeast Pennsylvania, 1944-1963" at noon.

— Thursday, March 20: Gallery talk and reception in the Penn State Harrisburg Gallery Lounge by artist **L. Beatriz Armitage**, 12:30-1:30 p.m. on display from 12:30 p.m. to 4:30 p.m. through March 21. The exhibit is titled "Appalachian Years."

— Tuesday, March 25: Reception commemorating the Penn State Harrisburg Alice Marshall Collection of women's history, Swalera Building, Main Lobby.

— Wednesday, March 26: **Frederic Baird**, director of Penn State Harrisburg's Women's Enrichment Center, will talk about "Community Women's Shared Voices" at 2 p.m. in the Gallery Lounge.

NEW KENSINGTON

Penn State New Kensington's "Celebration of Women" has been expanded to include students from area high schools. The theme for the 1997 celebration is "Educating Women: 21st Century Career Paths." On March 26, five New Kensington faculty members will help students explore career paths in health, science and technology. The presenters, all of whom are women, will provide information on employment forecasts and professions in medical technology, chemistry and engineering. In addition to the workshops, students have an opportunity to win awards for papers and essays, posters and photographs that explore the lives and history of women.

At noon, the Commission for Women will present awards to three exceptional women who have enriched their respective communities: an alumna, a community leader and a student leader will be recognized at a special luncheon. For information, call **Catherine Herbert** at (412) 339-6029.

UNIVERSITY PARK

— Sunday, March 2: Project Growth, a student organization sponsored by the Office of the Vice Provost for Educational Equity, will sponsor a series of four films and discussions regarding women's issues in America. The first film will be "Visions of the Spirit: A Portrait of Alice Walker," at

7:30 p.m. in 268 Willard. For more information contact **Ellen Brodlo** (614)865-0799. Other films will be shown on March 23, April 6 and April 13.

— Monday, March 4: The third speaker in the Women's Studies Feminist Scholars Series, **Temma Kaplan**, professor of women's studies and history, at SUNY Stony Brook, will present, "Crazy for Democracy: Women in the Environmental Movement" at 7:30 p.m. in 101 Kern.

— Wednesday, March 5: The Center for Women Students Brown Bag Lunch Series, "Classroom Climate for Women," presented by **Sabrina C. Chapman**, director of the center, from 1 to 1 p.m. in the CWS Resource Room, 120 Boucke.

— Thursday, March 6: Women's Studies Brown Bag Video Series "The Original Gloria Steinem." A personal interview with Gloria Steinem, speaking about her life, the choices women make, and how there is no right choice for every woman, noon to 1 p.m., 12 Sparks.

— Tuesday, March 18: Center for Women Students Brown Bag Lunch Series film, "Susan B. Anthony Slept Here." Correspondent Lynn Sherr takes viewers on a trip across the nation to visit landmarks and places that celebrate famous American women, including Bae Dirikson-Zaharias, Annie Oakley, Georgia O'Keeffe, Bessie Smith and others, noon to 1 p.m. in the CWS Resource Room, 120 Boucke.

— Tuesday, March 18: The MFA program presents **Diana Hume George**, English and women's studies, who will give a reading from her new book of essays, *The Lonely Other: A Woman Watching America*, 7:30 p.m., in the HUB Gallery.

— Wednesday, March 19: The sixth speaker in the Women's Studies Brown Bag Series, **Nalini Krishnakurthy**, instructor in women's studies, will present: "Legacy of the Past, Dreams of the Future," noon to 1:30 p.m., 12 Sparks.

— Thursday, March 20: Women's Studies Brown Bag Video Series, "The Role of the First Lady." A moderator questions four panelists about what they think the role of the First Lady has been and what they think it should be, noon to 1 p.m., 12 Sparks.

— Monday, March 24: The Center for Women Students Sexual Assault Awareness/Prevention film, "She Cried No," a recent movie, which gives a realistic look at the impact of acquaintance rape on the life of a first-year college student, her friends and her family, 7 p.m. in 102 Thomas.

— Wednesday, March 26: Center for Women Students Brown Bag Lunch Series, "The Power of the Pen: Susan B. Anthony, Gay, Bisexual, Free Week film, For Better or Worse: Same-Sex Marriage," features interviews with same sex couples, noon to 1 p.m. in CWS Resource Room, 120 Boucke.

— Wednesday, March 26: **Lori Ginzberg**, associate professor of history and women's studies, presents "Sexuality and Citizenship: Women's Rights and the American Revolution." 7:30 p.m. in 102 Kern.

— Wednesday, March 26: "Female Circumcision: Rite of Passage or Genital Mutilation?" at 7 p.m. in 123 Chambers.

— Thursday, March 27: Women's Studies Brown Bag Video, "The American Experience 2. Ida B. Wells: A Passion for Justice." Ida B. Wells was an activist and journalist. The program is at noon in 12 Sparks.

— Thursday, March 27: **Lynda Goldstein** and **Virginia Smith** will present "Martha Stewart: Domestic Dominance as Cultural Icon," at 4:50-5:30 p.m., 102 Weaver.

— Thursday, March 27: The fourth speaker in the Women's Studies Feminist Scholars Series, **Mary Hill**, presidential professor of history, Bucknell University, will present: "Charlotte Perkins Gilman: A Woman's Struggle with Womanhood," 7:30 p.m. in 101 Kern.

— For more information, contact **Monica Barczak** in the Women's Studies Program at JA510@psu.edu or by phone at (614) 863-9806, or **Cindy Doran** in the Center for Women Studies at (614) 863-0225.

WORTHINGTON SCRANTON

— Tuesday, March 18: The Penn State Worthington Scranton Cultural Events Series will feature recording artist and performer **Barb Martin** in a program titled "Women in Blues" at 7:30 p.m. in the Campus Study Learning Center. Other events will be announced in March.

YORK

— Monday, March 3: The York campus will host a special dinner beginning at 5:30 p.m. and featuring **Blackella V.A.**, artist **Martha Dill** and **Barb Martin**. The dinner will feature a narration of her experiences as a woman in the world of art. Dinner is \$8. Dillard's exhibit is open from 7 to 9 p.m. Call **Tom Schaefer** at ext. 605 for reservations.

Engineering seeks head of corporate relations and outreach

The College of Engineering is conducting a search for director of corporate relations and outreach. The director will serve as the administrator of the Office of Corporate Relations and Outreach for the college, with responsibilities for overseeing Continuing and Distance Education activities and programs; and directing, organizing and coordinating corporate interactions within the college. The person in this position also will serve as an advocate and facilitator for corporate/university partnerships; create economic development and technology transfer opportunities; promote college research and related facilities; assist college faculty members and departments in the development, design and production of conferences, workshops, credit/non-credit

courses and degree programs delivered by traditional classroom instruction and/or media-based methods; work with other University Continuing and Distance Education units in market research, client development, program marketing and delivery; and manage the corporate relations and outreach office functions. The director reports to the associate dean for Graduate Studies and Research.

The candidate should have a master's degree in engineering, education and training or technology management preferred; familiarity with Penn State's distributed campus structure, especially as it relates to Continuing and Distance Education and experience in marketing and delivery of Continuing and Distance Education programs. In addition, the can-

didate also should have experience in initiating, developing and promoting industry/university/government relationships involving cooperative research opportunities, technology transfer and economic development. A minimum of five to seven years combined experience in the areas mentioned above is required.

Applications will be accepted until March 20. To apply for this position, submit a cover letter and resume to: **Laura E. Frye**, manager, College of Engineering Human Resources, 101 Hammond Building, University Park, Pa. 16802. Penn State is an equal opportunity employer. Women and minorities are encouraged to apply.



Artist at work

Hisakaki Wake, a comparative literature graduate student and a member of the Japanese Friendship Association, made paper cranes and flowers to demonstrate the art of origami at the International Arts and Crafts Fair at the Hetzel Union Building on the University Park Campus Sunday, Feb. 23.

Photo: Greg Grieco

Administrative Fellows applications deadline near

The deadline to apply for the 1997-98 Administrative Fellows Program is rapidly approaching. Applications are due March 1.

Three fellows are being sought, one to serve under the mentorship of **John A. Brighton**, executive vice president and provost, one to work with **Gary C. Schultz**, senior vice president for finance and business, and the third to serve with **Robert E. Dunham**, senior vice president and dean of the Commonwealth Educational System.

The Administrative Fellows Program provides career development opportunities for women and minority faculty and staff. Fellows

will have an opportunity to broaden their perspectives and experience in higher education administration.

For more information about the program, please see page 11 of the Jan. 15 *Intercom*.

Applications for the Administrative Fellows Program are available from the Office of Human Resources at (814) 863-6188 or at the OHR Web site under "What's New" at URL <http://www.ohr.psu.edu>. Applications should be returned to the Office of Human Resources, Box 6, Rider Building, University Park, as soon as possible, but no later than March 1. For more information, call **Robert L. Kidder** at (814) 863-4606.

LGB equity panel seeks members

The Commission on Lesbian, Gay and Bisexual Equity in the Office of the Vice Provost for Educational Equity is actively seeking nomination for membership for the 1997-98 academic year.

The commission serves as an advisory group to the vice provost for educational equity on matters affecting the climate for gay, lesbian and bisexual members of the Penn State community. Its purpose is to foster a positive working and living environment for all members of the academic community regardless of sexual orientation. The commission's membership includes representation from all

employee classifications, as well as graduate and undergraduate students. Members are appointed to three-year terms.

The commission values diversity in its membership and is actively seeking nominations from culturally, racially and ethnically diverse populations. Self-nominations are encouraged.

Nominations forms may be obtained from the commission office, 313 Grange Building, or by calling (814) 863-8415. Nominations must be returned to the commission office no later than March 17. For more information, please call (814) 863-8415.

Award

Journal of Buddhist Ethics is honored as the "Most Popular Web Resource"

In a recent competition to name the "Best of 1996 Social Sciences, Humanities and Asian-Pacific Studies World Wide Web Resources," the *Journal of Buddhist Ethics* won the "Most Popular Web Resource" for the third consecutive year. Additionally, it was also voted the "Most Elegant WWW Resource" and finished third in the "Highest Data Quality WWW Resource" and "Best Structured WWW Resource" categories. Overall, it received 22 percent of all votes cast.

The *Journal of Buddhist Ethics*, the first academic

journal dedicated entirely to Buddhist ethics, is co-edited by **Charles Frishman**, professor of religious studies at Penn State, and **Damien Keown** of Goldsmiths College, London, and **Wayne Husted** from Penn State. The journal, published electronically only, functions as a traditional scholarly journal.

The journal has also recently received an honorable mention award in the "Best Educational Site" category in "The Best of the Web" competition; and in December was awarded a "Medaille d'Or for Web

Site Excellence" award by a World Wide Web evaluating site in England. It was one of only four religious sites designated. The site's URL is <http://www.psu.edu/jbe/jbe.html>.

In addition, in the "Best of 1996 Social Sciences, Humanities and Asian-Pacific Studies World Wide Web Resources" competition, Penn State's Australia-New Zealand Study Center garnered two second place awards. The competition is sponsored by the Combs Computing Unit of the Australian National University.

Penn Staters

Abhay Ashtekar, holder of the Eberly Family Chair in physics and director of the Center for Gravitational Physics and Geometry, presented plenary lectures at seven international conferences. His topic was "Geometric Issues in Quantum Gravity" at the International Conference of Geometric Issues in Science in Oxford, England. At the Erwin Schrödinger International Institute for Mathematical Sciences in Vienna, Austria, he presented "Scientific Director of the Workshop on Mathematical Problems of Quantum Gravity." At the Institute of Theoretical Physics of the University of Vienna, Austria, his topic was "Quantum Theory of Geometry." At the Max Planck Institute for Gravitational Physics in Potsdam, Germany, he held seminars on "Asymptotic Structure of Symmetry Reduced General Relativity" and "Quantum Theory of Geometry." At the Schrödinger Institute of Vienna, Austria, he presented seminars on "Probing Quantum Gravity Through Mid-Superspaces" and "Geometry of Quantum Mechanics."

Eunice N. Askov, professor of education and director of the Institute for the Study of Adult Literacy, organized, chaired and made a presentation at an all-day preconference institute of the International Reading Association's World Congress held in Prague, Czech Republic.

H.L. Barnes, distinguished professor of geochemistry and director of the ore deposits research section, recently gave the inaugural lectures of the new Distinguished Lecture Series established at the Indian Institute of Technology at Bombay, India. He presented a series of lectures on "Hydrothermal Ore-Forming Processes" and an institute colloquium on "Providing of Metals—The Search for Ores."

William L. Boyd, professor of education, served as a visiting scholar at the University of Wales at Cardiff, U.K., and presented several invited lectures across Europe and Australia during that time. He was the keynote speaker for British Columbia's Forum on School Choice in Vancouver, B.C., and also served as the keynote speaker for the National Conference of the Australian Council for Educational Administration and the Australian College of Education in Perth, Western Australia.

Paul Carrick, adjunct associate professor of philosophy in the Division of Humanities at Penn State Harrisburg, has been appointed visiting professor of philosophy in the Department of Humanities at the Penn State College of Medicine, Hershey Medical Center.

A. Welford Castleman Jr., Evan Pugh professor of chemistry, was invited to participate in a Nobel Symposium in Björkholm, Sweden. His lecture was titled "Femtochemistry and Femtobiology: Ultrafast Reaction Dynamics at Atomic-Scale Resolution." In Leeds, England, at the 14th International Symposium on Gas Kinetics, he presented the opening plenary address titled "Dynamics of Intrachain Reactions via Ultra Time Resolved Spectroscopy."

George S. Dulikravich, associate professor of aerospace engineering, has been elected a Fellow of the American Society of Mechanical Engineers. He also has been recognized as an honorary member of the Asociación Argentina de Mecánica Computacional and has received an ALCOA Faculty Fellow Research Award for 1996/97.

Terry Ehterton, distinguished professor of animal nutrition, gave an invited talk on "Different Strategies to Improve Meat and Milk Production" at a symposium on Gene and Biotechnology in Animal Production and Meat Processing in Lillehammer, Norway.

Hattie M. Faison, University physician at University Health Services, recently passed the 1996 Certifying Board Examination. She is now certified as a diplomate in internal medicine by the American Board of Internal Medicine. Certification by the ABIM recognizes excellence in the discipline of internal medicine, its subspecialties and areas of added qualifications.

Eric D. Feiglson, professor of astronomy and astrophysics, was invited to lecture on "The Emerging Field of Astrostatistics" at the Sydney International Statistical Congress in Australia.

Richard Fiene, professor-in-charge of early childhood education at Penn State Harrisburg, was one of 15 experts in his field invited to attend a national meeting on "Protecting Children from Harm: The Role of Child Care Licensing Standards" in Washington, D.C. The purpose of the "think tank" was to identify key licensing standards that protect children from harm while in child care facilities and to make recommendations to the president and Congress. Fiene's latest research into identifying core national health and safety standards was used as the measurement tools for formulating the recommendations.

Richard Fitzsimmons, director of the library at the Worthington Scranton campus, was one of 25 people invited from the United States and Europe to present a paper at the Libraries, Books, Ideology During the Second World War (1939-1945) conference, sponsored by the National Library of Latvia. Fitzsimmons' presentation, "Intellectual Freedom, Librarianship and the Democratic State," dealt with censorship and the role librarians play in supporting intellectual freedom.

Gregory L. Geoffroy, dean of the Eberly College of Science, was honored as an alumni Fellow by the University of Louisville, Ky., where he earned his bachelor of science degree with honors in 1968.

Jack Gido, director of PENNTAP (Pennsylvania Technical Assistance Program) received a special recognition award from the National Technology Transfer Center for leading a consortium of nine similar programs in four states in developing a national industrial extension training curriculum.

Drew Hyman, professor public policy and community systems, and **Mollie Van Loon**, graduate student in rural sociology, presented the paper "Leadership Self-Efficacy, Perceptions of Power Structures and Community Participation: An Interactionist Hypothesis" at the International Conference of the Community Development Society in Melbourne, Australia.

Ronald G. Iacocca, research associate in the Department of Engineering Science and Mechanics, is the recipient of the 1996 American Institute of Mining, Metallurgical and Petroleum Engineer Rossiter W. Raymond Memorial Award. The award was established in 1945 and honors the most outstanding research or technical paper published within a specific time period. Iacocca was chosen for his paper "The Effect of Thermal Cycle on the Microstructural Development of a Power Metallurgy Superalloy Brazed Lattice."

Akhlesh Lakhtakia, associate professor of engineering science and mechanics, has been elected a Fellow of the Institute of Physics. Fellows are distinguished members of their field who have made significant contributions through research, service and international leadership. About 10 percent of the members of the Institute of Physics have achieved fellow status; about 100 members are elected fellows each year.

Donald W. Leslie, associate dean for undergraduate studies in the College of Arts and Architecture and associate professor of landscape architecture, has been named president of the American Society of Landscape Architects.

The American Society of Landscape Architects represents more than 11,000 members of the landscape architecture profession in the United States and throughout the world.

Jorge Pullin, assistant professor of physics and a research fellow in the Center for Gravitational Physics and Geometry, presented the following invited talks: "Quantum Gravitational Dynamics and Semiclassical Relations" at the Erwin Schrödinger Institute in Vienna, Austria; and "Colliding Black Holes with Boost and Spin" at the Albert Einstein Institute of the Max Planck Foundation in Potsdam, Germany.

Gary Rogers, associate professor of dairy and animal science, presented a paper titled "Genetic Correlations Among U.S. Traits and Udder Health Measures from Denmark and Sweden" at a meeting of the European Association of Animal Production in Lillehammer, Norway.

Dr. Diane E. Schuller, chief pediatric allergy, immunology and pulmonology at The Milton S. Eshelby Medical Center, was recently presented the Distinguished Fellow Award by the American College of Allergy, Asthma & Immunology.

Schuller and five others were recognized for their distinguished contributions to the specialty of allergy, asthma and immunology. ACAAI is a professional association of 3,900 allergists/immunologists.

Ellen Taricani, training and support specialist in computer services, received the Information Technology Award of Excellence from Agricultural Communicators in Education.

The independent learning/distance education course, "Psychology of Discipline" designed by **Robert T. Tauber**, professor of education at Penn State Erie, The Behrend College, has been named the 1996 American Association for Collegiate Independent Study (AACIS) Outstanding Independent Study Course. AACIS recognizes only one outstanding course annually.

Bruce Trinkley, associate professor of music, has won second prize in this year's Chautauque Chamber Singers Choral Composition Contest for his choral cycle "Images and Elegies," from Mountain Laurels. The Chautauque Chamber Singers contest is one of the premiere chorale contests in the United States.

Jean-Claude Vuillemin, associate professor of French literature, gave an invited lecture: "Staging the Prince: Power of Semiotics and Semiotics of Power" at the University of Paris-I Sorbonne, Paris, France.

M. Susie Whittington, assistant professor of agricultural and extension education, will serve on the task force for Reinventing Agricultural Education 2020, part of an effort funded by the National Council for Agricultural Education, the Kellogg Foundation and the National FFA.

Donald Willower, distinguished professor of education, gave the keynote address at an international conference on Values and Educational Leadership, held at the University of Toronto. His talk was titled "Values and Valuation: A Naturalistic Approach."

Behemoth animals may follow same extinction patterns

By A'NDREA ELYSE MESSER
Public Information

Dinosaurs and elephants may have had similar patterns in their long slide to extinction, a paleontologist has discovered.

"If we look at the last five million years before extinction for both dinosaurs and proboscideans, we find a surprisingly similar pattern of extinction," Roger J. Cuffey, professor of geosciences, said.

The proboscideans—mammoths, mastodons, stegodons and elephants—are not quite extinct, but with only two species left, they are far reduced from their heyday. The African and Indian elephants are the remnant of what, at its height during the late Miocene, was a group of some 30 types of animals roaming the Earth.

"Interestingly, at their height, dinosaurs also had a diversity of about 30 species," Cuffey said.

Cuffey and Joey H. Eichelberger, an undergraduate, compared the diversity of dinosaurs and proboscideans over the last five million years of their existence in a poster presentation.

"Most people believe that we understand the extinction of the dinosaurs



Roger J. Cuffey, professor of geosciences, right, and undergraduate Joey H. Eichelberger have found similar patterns in the histories of dinosaurs and elephants.

Photo: Greg Grieco

now that we have proof of a large meteor event at the time of their final demise," Cuffey said. "The KT meteor was only the final death blow for the dinosaurs; they had been declining in diversity and number for at least five million years."

For the proboscideans, the final death blow will probably be by the hand of

humans, but these elephant-like animals also suffered a gradual decline in species number over the past five million years and only now approach extinction.

Although dinosaurs and proboscideans ruled at different times, placing both decline curves on the same graph show that in their individual five million

year periods, these giant beasts shared a very similar pattern of decline.

"No one has ever put both graphs on the same chart before," Cuffey said. "Because the patterns appear to be similar, perhaps we can learn something about the decline of the dinosaurs from the more recent decline of the elephants."

TQM is indicator of quality in home health care

A survey of U.S. Medicare-certified home health agencies shows that total quality management (TQM) practices are related to human resource effectiveness.

Since effective human resources management is a prerequisite for achieving quality-related goals, such as patient satisfaction and improved clinical outcomes, the investigators say their results and analysis suggest a number of factors for home care consumers to consider in selecting a provider.

Kathryn H. Dansky, assistant professor of health policy and administration, and Diane Brannon, associate professor of health policy and administration, surveyed home health agency CEOs or executive directors in 11 states that represent the major U.S. regions.

Dansky said a total quality management program is one of the first signs of quality for which a consumer should look. The authors define TQM as a "structured, systematic process for planning and implementing continuous improvements in quality."

The researchers note that 70 percent of the home health agencies (HHAs) participating in the study reported that they were involved in an organized TQM program. Not-for-profit organizations were significantly more likely to report TQM participation while public HHAs were least likely to report TQM involvement. Hospital-affiliated HHAs were more likely than free-standing HHAs to report participation.

Links between health, wealth confusing among pastoralists

By A'NDREA ELYSE MESSER
Public Information

Apparent health is not necessarily a good indicator of children's health among pastoralists in Africa, based on one anthropologist's findings.

A study of the Herero, a group of pastoralists who herd cattle and goats in the northern fringe of the Kalahari Desert of southwestern Botswana in southern Africa, suggests that apparent wealth, in the form of dairy cattle, may not be a good indicator of the health of children below the age of 10.

"The Herero are generally prosperous, but there are a wide range of livestock holdings among families," Renee L. Pennington, research associate in anthropology, said. "There also are differences among women in survival of their children."

The normal assumption would be that the wealthier the family, the healthier and more likely the children were to survive.

"Previous research shows that Herero women have differences in offspring survival. Some women successfully raise children while others are less successful," Pennington said.

"We are trying to determine if these differences in offspring survival are caused by behavioral characteristics of the mothers, or environmental factors like poor nutrition or disease," she said.

A study of heights, weights and triceps skin fold measurements—used as an indication of body fat—showed that children between the ages of 2.5 and 9.5 from the wealthiest families had less body fat than those in the less wealthy families.

"Children under age 2.5 from cattle-rich households have thicker triceps skinfolds, are heavier and

taller for their age than children from cattle-poor households," Pennington said. "From age 2.5 to 9.5, the reverse holds."

This suggests that children from the less wealthy families have a better chance of survival, but, because of the overall prosperity of the Herero, mortality of children above 1 year of age is very low among all children.

A possible explanation may be that the wealthier children work harder and therefore have less stored fat, or the wealthier children are competing with more calves intended to increase the already bountiful flocks.



A regular column provided by Intercollegiate Athletics

Paterno honored

Coach Joe Paterno has been selected as the recipient of the fifth annual Duffy Daugherty Award. The honor is named for Michigan State's legendary football coach from 1954-1972 and is presented to an individual who has made outstanding contributions to college football.

Penn State third in licensed sales

Penn State ranked third nationally in the sale of licensed merchandise in the first half of 1996-97, according to the Collegiate Licensing Company. The CLC recently reported that during the first two quarters of the 1996-97 fiscal year, July-December 1996, sales of Penn State licensed products trailed only Michigan and Kentucky nationwide. The CLC represents approximately 150 Division I institutions across the nation. During the 1995-96 fiscal year, Penn State also was ranked No. 3 nationally in licensed sales.

Hall of Famer

Dave Robinson, a dominant two-way end for the Nittany Lions of the early 1960s, has been elected to the National Football Foundation's College Football Hall of Fame. Robinson was chosen as a member of the Hall of Fame's Class of 1997. Robinson becomes the 13th ex-Nittany Lion player to earn election to the Hall of Fame and the third in the last five years. Chosen in the first round of the 1963 pro draft by Green Bay, Robinson became an integral member of Coach Vince Lombardi's Packers and played in both Super Bowls I and II. Robinson was the first Penn State athlete to win a Super Bowl ring.

Check the Web

For the very latest in Penn State sports information, be sure to visit the official Intercollegiate Athletics site on the World Wide Web at <http://www.psu.edu>. Click on sports.

For the record

The photograph on page 7 of the Feb. 20 *Intercom* was incorrectly identified. The photo caption should have read "Sea and Rocks During a Storm" by Winslow Homer, which is included in the exhibition "Capturing the Light: A Selection of Twentieth Century American Watercolors" on display at the Palmer Museum of Art through May 18.



Hoist 'em high

A flat of computers is lifted into the second floor of Pollock Undergraduate Library with the help of a crane. This scene was captured last week during the delivery of 202 computers to the new Pollock Computer Lab on the University Park campus. This special delivery boosts the number of computers available for student use to about 2,100 on the campus.

Photos: Greg Grieco

College teams up with liquor board to curb binge drinking

Recognizing the relationships among student attitudes and behaviors toward alcohol, a dozen professors in the College of Communications, in conjunction with the Pennsylvania Liquor Control Board (PLCB), have launched a bold experiment, with the goal of bringing "theory to practice and thought to action."

Several spring semester classes in the college are taking on the tasks of conducting market research and developing public service announcements, advertising campaigns and multimedia products to address burgeoning alcohol-related problems like teen and young adult binge drinking.

Last fall, the college began a working relationship with the Commission for the Prevention of Alcohol, Tobacco and Other Drug Abuse. As a result of this relationship and as part of the college's SOURCE initiative, students are being given the opportunity to identify and examine real community problems within the context of a highly disciplined classroom curriculum. SOURCE, which stands for Service, Out-

reach, Unity, Research, Communication and Education, is a service learning program in the college under the direction of Jeremy Cohen, associate dean for undergraduate education.

"The PLCB initiative will provide students with an opportunity to understand the relationship between our work as communication professionals and the information children, students and adults use to make decisions," Cohen said.

On Tuesday, several members of the PLCB visited campus to meet with classes and discuss the students' progress. Already, students have filmed footage taken during a "ride along" with police officers in the community, conducted focus groups with students about binge drinking, and started work on a Web site. In addition to these efforts, students will produce public service announcements targeting high school students at prom time, research the impact of alcohol advertising on young people, and develop print and broadcast advertising campaigns to discourage binge drinking.



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Volume 26, Number 23

Spanier tells state Legislature more funding is needed

By LISA M. ROSELLINI
Public Information

In an effort to convince lawmakers to provide additional funding to Penn State, President Graham B. Spanier traveled to Harrisburg twice over the last two weeks to attend both the Senate and the House budget appropriations hearings.

After the announcement in early February of Gov. Tom Ridge's proposed spending plan, which includes a 2 percent increase for Pennsylvania's public universities, Penn State officials said the slight boost was not enough to cover some of the University's most critical needs. In his testimony before the Senate on Feb. 25 and the House on March 3, Spanier told legislators that the University is "greatly challenged" in fulfilling its mission because of a state appropriation that has declined 6.6 percent since 1991-92, when adjusted for inflation. The University is seeking \$305 million — 8.6 percent more than last year's appropriation — to continue adequately serving students and the state and to keep tuition as affordable as possible. Without state support, Spanier indicated that tuition could rise more than the planned 2.9 percent.

"Our appropriation request for next year includes only the

See "Legislature" on page 3

Spring break promises to be true learning experience for Altoona College students

For a group of Penn State Altoona College students, this coming spring break will not be their normal respite from classes. Although the students will be in a balmy location, their planned activities are a far cry from the MTV image of sun, surf and fun.

Following an application and interview process in October, the students were selected to be a part of Habitat for Humanity International. Instead of hightailing it to Fort Lauderdale or Ocean City, these students are going to Totonicapán, Guatemala, in Central America to build houses in partnership with Habitat for Humanity International and Guatemalans from the area. The students will function

See "Guatemala" on page 3



No glasses needed

Dr. Maria Moon, a State College optometrist, checks a pig's vision in preparation for research by Stanley Curtis, professor of animal sciences. Curtis is using video games developed for use with nonhuman primates to research the mental processes of pigs, and needed to know how far away from the pigs to place the monitors. Curtis said using the video games eliminates the possibility of the pigs picking up clues to the correct answers from a human tester.

The project, which is just beginning, has caught the attention of the BBC. A crew from the British television network visited the Agricultural Sciences and Industries Building on the University Park Campus on last week to tape some segments for a documentary and will be back in April to tape additional segments. The BBC plans to air the documentary in Great Britain early this summer.

Photos: Greg Grieco

Pioneering women to be honored

By LISA M. ROSELLINI
Public Information

In the early 1980s, while the nation watched as the first woman was appointed to the U.S. Supreme Court, a handful of University women sensed it was time for change at Penn State as well.

Taking a long look around, these pioneering women — some students, some staff and some administrators — decided to lift their voices in unison to be heard on issues of equity, child care, accessibility, classroom climate and a mul-

titude of other concerns that had been brewing beneath the surface. With the help and support of some key people, including Rosanel Oswald, wife of Penn State's 13th President John Oswald, the Commission for Women was born. This year, on March 17 at its annual banquet at the Nuttany Lion Inn, the Commission for Women will honor these 20 trailblazing females for their guidance, leadership and dedication — because, according to some, without that first commission, the advances currently being made would not be possible.

See "Pioneering women" on page 11

Inside



West Campus

Development of West Campus is still moving forward with the recent announcement of the release of some funds for infrastructure design. For the whole story, turn to page 2.



Goodbye city life

Researchers have discovered that rural men tend to live longer than their urban counterparts. For more information, turn to Focus on Research on page 15.

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West Campus update

Design funds released, utility expansion project moving ahead

By LISA M. ROSELLINI
Public Information

Plans for a utility expansion for a portion of the West Campus development at University Park are inching forward with the latest news that the state has released \$2.5 million of an authorized \$15 million, for design of the project. The \$2.5 million also includes funds for contingencies, some site work and permitting fees.

Although water and gas lines are hardly anything to write home about, the project is an integral phase in the development of the 53-acre West Campus, roughly bordered by Pollock Road extension, almost to Carl Street, the borough of State College to the south and North Atherton Street.

In July 1994, Gov. Tom Ridge allocated \$15 million for design and construction of this infrastructure improvement project that must be completed concurrent with the construction of the buildings proposed for the site. So far, \$2.5 million has been released and this portion of the project, under the supervision of the state Department of General Services, includes the design of a centralized chilled water system and expansion of water, gas and electric lines, plus the extension of telecommunications lines and associated site improvement work. The main feature of the design work is the chilled water plant which will be built to initially handle the air conditioning and research needs of the next two buildings to be constructed — the Leonard Building and the New Research Center. The plant will be expandable in the future to accommodate the growth of the West Campus.

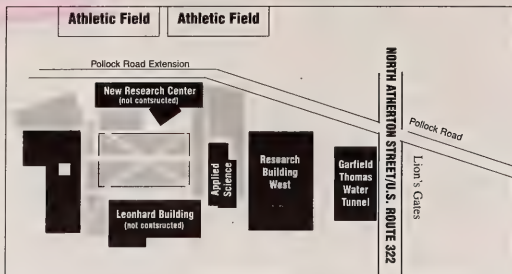
Pat Bianchi, chief of the profession-

al selection section of DGS, said the next step is for Penn State to submit a project program or detailed scope of work that will describe exactly what the design job entails. DGS is currently in the process of advertising for an engineering or architectural firm with similar experience that can take on a design project of this nature. A five-member professional selection committee from DGS will then review the applications and select a short list of three firms to pass on to the secretary of general services.

"A committee here at Penn State has already started a series of meetings to draw up a project program statement to submit to DGS," said Tim Heltman, project manager for West Campus development and chairman of the committee.

"The session will involve identifying the details for the scope of work, planning for how we will proceed and deciding what is the logical progression of work," Rob Cooper, a committee member and manager of engineering services, said. "In addition, we'll be looking at ways to incorporate efficiency, lower maintenance costs and plan for future expansion in the current design."

"It's our goal to move quickly through the design process so that we can meet other goals tied to this project, such as some site improvement



Part of West Campus

The first pedestrian quadrangle on the new West Campus at University Park will be formed in part by the existing Applied Science Building (formerly the ARL Building), the Leonard Building and the New Research Center.

work for the two building construction projects that are already designed," Heltman said.

Design plans for the proposed \$15 million Leonard Building, a teaching and research facility in the College of Engineering that also will house the departments of Industrial and Management Systems Engineering and Nuclear Engineering, were approved by the Board of Trustees in March 1995. The University will kick in \$5 million toward construction of the 95,200-square-foot facility. The 107,000-square-foot New Research Center will house general classrooms and research and teaching laboratories, as well as the Department of Engineering Science and Mechanics in the College of Engineering and the Earth System Science Center, the Department of Mineral Economics and the Office of

the Associate Dean for Research in the College of Earth and Mineral Sciences. Plans for that \$17.7 million structure were approved in May 1995. Again, Penn State will contribute \$5 million to the project, with the remainder to come from the state. These two buildings, along with the existing ARL Building (renamed the Applied Science Building), will form most of the first pedestrian quadrangle on the new West Campus. (See graphic).

Heltman said the programming committee for the infrastructure project should submit its plan to the state within the next 60 days. The design phase for the infrastructure project should take between 10 and 11 months. Once complete, the University will wait for the remainder of the funds for construction of the utility project to be released by the state.

Faculty Senate tackles various issues, hears budget update

At its Feb. 25 meeting, the University Faculty Senate heard from President **Graham B. Spanier** about his testimony before the state Senate during its appropriations hearings that same day. (See story on page 1). Spanier told faculty members that the University would have to work hard to show that the nearly \$305 million appropriation it is seeking has merit.

"I continue to be very positive about the progress we are making at Penn State," he said. "We will continue to communicate with the state Legislature and do the best job that we can."

In other business, the Senate recognized the talent and academic performance of Penn State's first Rhodes Scholar, **Tess Thompson**. An award-winning writer and University Scholar, Thompson also found time for volunteer work while maintaining a 3.95 grade point average.

The Senate also asked the Committee on Adminis-

trations, Records, Scheduling and Student Aid to better define the criteria for re-enrollment. The number of re-enrollments has increased sharply over the past two years, and the Senate is concerned that students are withdrawing to avoid receiving poor grades. Last semester at University Park, 763 students withdrew, 358 in the last two weeks of class. Of the 358 late withdrawals, 203 re-enrolled for spring. The committee proposed a change to the existing policy that would require students to obtain their dean's signature.

In addition, the Senate:

- Heard a report on a new pilot program, which began Feb. 1, at University Park to educate students about the dangers of alcohol abuse. The three-level intervention program is designed to identify at-risk students and enter them in treatment programs. Approximately half of all Penn State residential campuses have some type of program; Penn State Erie,

The Behrend College and the Mont Alto campus already have three-level programs in place. The Office of Judicial Affairs estimates that alcohol is involved in 70 percent to 80 percent of all student violations.

- Agreed to modify policy HR-60 to require human resource representatives to notify faculty or staff members if an accessible document, not bearing the signature of the employee, is added or removed from an employee's file.

- Adopted a revision to the Senate's standing rules on committee structure and discussed proposed changes to its bylaws to reflect Penn State's recent merger with The Dickinson School of Law and the reorganization of the Commonwealth Educational System.

The Senate's next meeting will be at 1:30 p.m. Tuesday, March 25 in 112 Kern Building.



Spring training?

Before the weather turned nasty, Xiaohu Shan found a chance to ride his bike to Pattee Library on the University Park campus. This picture was taken by photojournalism student Allyson Rech as an assignment for class.

Guatemala

continued from page 1

completely in the culture of the Guatemalan people, sharing meals and building homes alongside of them. The trip was facilitated by Altoona Collegiate Outreach Ministry staff workers. Obviously, this is no luxury trip, said work team leaders **Jeff Denlinger** and **Amy Yarnal**.

"The poverty and conditions we will see and experience will change our lives," Denlinger said. "The lessons we will learn about liberty and justice while in Guatemala are ones that will return to campus with us and empower us to educate our peers."

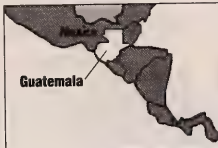
Denlinger and Yarnal believe this trip will serve as a stepping stone in helping Penn State Altoona toward its goal of internationalization.

Much of the students' preparation over the last three months focused on raising support. Work team members can be identified on campus by the red bricks they carry, which symbolize the work they will be doing. Preparation also involved group dynamics to enable them to be sensitive to other cultures.

"The training wasn't focused as much on how to build houses because the students will basically be hired hands," Yarnal said.

"This is an amazing adventure to be taking for spring break," sophomore **Ellen James**, who is majoring in journalism, said. "Most people head down to the beach, but the shore is always going to be there. This is the one chance for me to make a difference in a family's life. It's a once in a lifetime opportunity, and I've been excited about it all year. It's been a lot of hard work but it's all been worth it. It's very exciting."

Sophomore **Leah Morelli**, who is



majoring in art education, said that one of the reasons she wanted to go on this trip is because she has never done any volunteer work involving such a wide-ranging and vast task.

"I'm very excited to travel and to help build a house for someone less fortunate," she said. "I'm anxious to get to know the people from Guatemala and to live in their culture and share my culture with them."

One thing she expects to accomplish from this trip is to come back more knowledgeable about the world and other lifestyles.

Habitat for Humanity International is a non-profit, ecumenical Christian organization dedicated to eliminating poverty housing worldwide. It works in partnership with people in need throughout the world, building simple, decent shelter. To date, the organization has built more than 50,000 homes worldwide.

Members of the team include leaders Denlinger and Yarnal, along with Freeman, James, Morelli, Carrie Arndt, Kim Barnhart, Danielle Morrow, Tim Risser and Barry Scott. Upon their return, the students will present a slide show of their trip at 8 p.m. Wednesday, March 26, in the Community Arts Center at Penn State Altoona. Refreshments will be served. For more information, call (814) 949-5138.

Legislature

continued from page 1

most basic elements to sustain ourselves in an environment of profound change," Spanier said. "Our highest priority is funding 50 new faculty positions to improve the quality of educational programs and reduce class size."

Spanier explained that as part of a three-year plan, Penn State will add a significant number of new faculty positions through state support and internal reallocations from administrative expenditures. The president also told legislators that increased support for the University Libraries and information technology, cooperative extension, medical education and agricultural research was a primary concern.

Calling the appropriation request "necessary and reasonable," Spanier said the money is needed for Penn State to continue its missions in teaching, research and service. Currently, Penn State is Pennsylvania's principal source of research and technology transfer, which since 1965 has provided

free technical assistance to more than 20,000 small Pennsylvania companies — an estimated \$100 million economic benefit for the state. In addition, Penn Staters connected with research and technology transfer have contributed to the creation of more than 5,000 new jobs and the retention of more than 3,500 existing jobs in the Commonwealth. In other areas, Penn State also helps provide not only better economic conditions for residents, but also vast educational opportunities, Spanier said. (See chart below).

A SOLID INVESTMENT FOR THE STATE

In President Spanier's statements to the Legislature, he has tried to stress Penn State's overall benefit and contributions to the Commonwealth. A sampling of those contributions follow:

- Penn State Cooperative Extension programs serve one in six Pennsylvania households annually, while Extension's 4-H youth development program serves 117,000 Pennsylvania youths a year.

- More than 1 million Pennsylvanians participate annually in short courses and Continuing and Distance Education programs yearly serve more than 180,000 nontraditional students.

- Penn State's research budget for 1995-96 was \$350 million, by far the largest university research program in Pennsylvania and one of the largest in the nation. Penn State's research funding is largely from federal sources and is spent almost entirely in the Commonwealth.

- In 1995 alone, more than 700 firms invested in more than 1,200 Penn State projects.

- Penn State has helped to create more than 400 new companies.

Source: *The Value of Partnership: A Report to Pennsylvanians from Your Land-Grant University, 1997*

will directly support the College of Medicine, which is ranked last nationwide for the amount of state support it receives out of a list of 75 public medical colleges.

Spanier pointed out that the University's appropriation request is "substantially backed by internal cost-cutting efforts that have reallocated more than 10 percent of the University's budget in the last five years." The president also said that the new five-year strategic planning process being undertaken by the University Planning Council will include even deeper cuts and more reallocations for academic and support units.

"We are grateful that the governor has recommended an increase in funding... but this proposed 2 percent increase is not enough to keep up with inflation, let alone move Penn State forward in areas where the Commonwealth simply should not fall behind," Spanier said. "There can be no doubt that public higher education must play a vital role if the future is to be enlightened, prosperous and secure."

The House and Senate will continue budget discussions, with proposed legislation expected from those deliberations in April or May. The Legislature has until June 30 to take action on the governor's proposed budget.



Technology in classroom topic of April 5 symposium

Sally Jackson, director of the Communication Collaboratory and acting head of communication at the University of Arizona, will be the keynote speaker for this spring's "Teaching and Learning with Technology Symposium" on Saturday, April 5 at University Park.

This year's fifth annual symposium, which will be held from 9 a.m. to 4:30 p.m. in the Joab L. Thomas Building, will provide a forum for sharing ideas and experiences in using technology for University-level instruction. At the University of Arizona, the Communication Collaboratory is a networked classroom in the Department of Communications that also houses a variety of research and development projects related to communication technology — especially POLIS (Project On-Line Instructional Support), a unique resource for collaborative learning.

Jackson's address will focus on sharing with Penn State the planning, design and development of POLIS and how online resources contribute to improved teaching. POLIS is both an online instructional resource for

students and an online support tool for instructors.

Jackson holds a Ph.D. in speech communication from the University of Illinois at Urbana-Champaign. Before going to Arizona, she taught at the University of Oklahoma, Michigan State and the University of Nebraska-Lincoln. She is the author of numerous articles and books, as well as the recipient of various teaching and research awards.

The daylong event is sponsored by Education Technology Services of the Center for Academic Computing, the College of Education, Deasy Graphics Laboratory, Engineering Instructional Services, the Center for Learning and Academic Technologies and the IDP Center for Excellence in Learning and Teaching. To register, please contact Jean Cowher at ac@psu.edu or (814) 863-4356. You can also register via the World Wide Web at <http://www.psu.edu>. Click on "Computing," then choose "Seminars," then choose "Seminars Schedule."

Anyone with questions about the symposium can call Karen Peters at (814) 863-7763.

Promotions

Staff

Betty L. Blair, staff assistant VI in College of Agricultural Sciences.
Christina M. Bowman, staff assistant VI at The Hershey Medical Center.
Scott D. Cathell, computer support specialist in College of Agricultural Sciences.
Kathie M. Conklin, staff assistant VI in College of Health and Human Development.
Cristan D. Crestani, staff assistant VI in Board of Trustees Office.
Randell L. Dreibeis, research support technician II in College of Agricultural Sciences.
Ray E. Dunkle, technical analyst II at The Hershey Medical Center.
Patricia A. Ellenberger, administrative assistant III in College of the Liberal Arts.
Heidi J. Fellenbaum, clinical case manager at The Hershey Medical Center.
Jody R. Fenush, staff assistant VI in Learning and Graduate School.
Darrell L. Flood, employment specialist/training coordinator in Housing and Food Services.

Erica M. Gallagher, staff assistant V in College of the Liberal Arts.
Joyce A. Getz, staff assistant VII at Penn State Altoona College.
Diane E. Gill, associate director, Student Affairs at The Hershey Medical Center.
Sean D. Gurekovick, operations coordinator II in Computer and Information Systems-Telecommunications.
Ronald B. Hartman, assistant manager, housing in Housing and Food Services.
Evonne E. Henninger, staff assistant VII in College of Agricultural Sciences.
John T. Herbsline, senior employment/correspondence specialist in Office of Human Resources.
Joseph J. Howanc, pedorthist at The Hershey Medical Center.
Ann M. Hutchinson, administrative assistant III in Research and Graduate School.
Jody L. Joesik, staff assistant VIII in Applied Research Laboratory.
Larry L. Kelley, supervisor, broadcast and operations in Continuing and Distance Education.
David A. Kilmczyk, assistant engineering aide in Applied Research Laboratory.

Hear prognosis for alternative medicine on March 11

"The Current Status of Alternative Medicine in American Society," will be presented by David J. Hufford, professor of humanities at The Hershey Medical Center, as part of the ongoing "Prognosis for the Decade: The Future of Health and Disease in Pennsylvania" lecture series in Harrisburg.

From 8 to 9 a.m. Tuesday, March 11, at the Penn State Downtown Center, Hufford will discuss alternative medicine. To register for any of the lectures in this series offered by the medical center, call the center at (717) 783-0433.

Learn about multiculturalism in other countries

How do other countries handle issues of diversity and multiculturalism? To find out, attend the March 12 lecture "Diversity and Multiculturalism in Other Countries," from noon to 1 p.m. at the Penn State Harrisburg Eastgate Center.

Hisham Al-Khayat, head of the industrial planning directorate, State Planning Commission in Syria; Ismael Mbaye, assistant director for secondary education, Ministry of National Education in Senegal; and Alexander Razumov, chief of staff, President's Office, Government of Chuvashia, Russia, will lead a panel discussion on the components of diversity and multiculturalism in their respective countries and will talk about how it is impacting their government, culture, politics and economy.

The workshop, presented by the Hubert H. Humphrey Fellows Program, is free, but registration is necessary. To register, contact the Eastgate Center at (717) 772-3590.

Trace history of women's labor movement in state

Kenneth C. Wolensky, who received his Ph.D in adult education from Penn State, will present "Creating a Women's Movement: The ILGWU in Northeastern Pennsylvania 1944-1963," noon Thursday, March 20, at the Penn State Harrisburg Eastgate Center.

Wolensky traces the transformation of The International Ladies' Garment Workers' Union, one of Pennsylvania's largest women's labor unions, from virtual powerlessness in 1944 to an active and vibrant movement by 1963.

Incorporating slides and oral histories of women garment workers, garment factory owners and community activists, the presentation weaves the story of how the union established an educational infrastructure to improve working conditions. The program concludes with a discussion of the state-of-affairs in Pennsylvania's garment industry since the 1960s in view of recent economic developments.

To register for this presentation, co-sponsored by The Pennsylvania Historical and Museum Commission and the Penn State Harrisburg Eastgate Center, call the Eastgate Center at (717) 772-3590.

Light refreshments will be provided.

Ken T. Korbich, senior employment/correspondence specialist in Office of Human Resources.
Gayle J. Leininger, cardio technician/pacemaker at The Hershey Medical Center.
Sherri L. Luchs-Pozza, assistant nurse manager at The Hershey Medical Center.
Barbara A. Mason, staff assistant VII at The Hershey Medical Center.
Joseph T. Mattivi, employment specialist/training coordinator in Housing and Food Services.
Connie J. McCartney, assistant manager, housing in Housing and Food Services.
Patricia H. McCartney, assistant to financial officer II in Corporate Controller's Office.
Kim S. McKillop, staff assistant VI at The Hershey Medical Center.
Dan Meuleners, financial officer III in Corporate Controller's Office.
Lara A. Miller, staff assistant VI at The Hershey Medical Center.
Sheri A. Miller, staff assistant VI in College of the Liberal Arts.
Amy C. Murphy, staff assistant VI at The Hershey Medical Center.

Cheri L. Nearhoof, staff assistant VI in Continuing and Distance Education.
Joanne E. Nocito, staff assistant VI in College of Agricultural Sciences.
Daniel T. O'Donnell, reimbursement analyst at The Hershey Medical Center.
Mark E. Smukler, director, programming and production in Continuing and Distance Education.

Technical Service

Tracey M. Alcalá, escort service aide at The Hershey Medical Center.
John E. Askey, equipment mechanic/operator in College of Agricultural Sciences.
Eunice M. Ferguson, residence hall utility worker in Housing and Food Services.
James T. Kissell, storeroom worker in Housing and Food Services.
Ray J. Konciewicz, maintenance worker utility at Penn State Wilkes-Barre campus.
Todd M. Neidig, maintenance mechanic at The Hershey Medical Center.
Henry G. Shawley, biological technician B in College of Agricultural Sciences.

Outstanding Engineering Alumni named

Leaders in industry, government, medicine and in the development of state-of-the-art technology will be honored as 1997 Outstanding Engineering Alumni at the University Park campus on April 4.

The annual Outstanding Engineering Alumni Awards are the highest honor conferred by the College of Engineering. Only 175 men and women — out of more than 72,000 alumni world-wide — have received the award during the 31 years since its inception.

This year's Outstanding Engineering Alumni are:

■ **William R. Bastian**, retired chairman of the board of AM Communications. Bastian serves on the Penn State Engineering Society (PSES) board of directors.

■ **John H. Bruning**, of Pittsford, N.Y., president and CEO of the Trope Corp., world renowned for his work in the field of interferometry, the science of measuring by using light beams. He is an electrical engineering graduate.

■ **Ernest J. Cross Jr.**, manager of special events at Old Dominion University. He has a background in aeronautical engineering from Penn State.

■ **H. Alfred Eberhardt**, retired president and CEO of Hale Products Inc., best known for having made this 700 employee operation a leading American producer of emergency products. He has a degree in mechanical engineering.

■ **Larry M. Girvin** of Richmond, Va., senior vice president of commercial operations at Virginia Power, with Penn State degrees in industrial and nuclear engineering.

■ **Joseph C. Hurlburt**, president of the engineering consulting firm Innovation by Contract Inc. He holds a degree in agricultural engineering.

■ **James S. Lee**, executive vice president of the Henkel Corp., the North American operating company of the Henkel Group with headquarters in Dusseldorf, Germany. Henkel is a world leader in ingredients for personal-care products and surfactants, and the leading manufacturer of oleochemicals made from natural oils and fats. Lee holds a degree in chemical engineering.

■ **John R. Mashey**, director of systems technology in research and development for Silicon Graphics Computer Systems.

■ **Walter K. Morris**, executive vice president of Gannett Fleming Inc., recognized as an international leader in the water industry. He has a background in sanitary engineering from Penn State.

■ **Dale M. Mosier**, vice president of the Menasha Corp. and president of the corporation's Poly-Hi Solidur component, the world's largest converter of UHMW (ultra high molecular weight) polyethylene. He is an engineering science graduate.

■ **Terry E. Spraker**, self-employed consultant to venture capital firms and medical device industries, perhaps best known as having been president and CEO of the former EP Technologies — a leader in the field of interventional cardiac electrophysiology, catheter-based technologies to diagnose and treat patients suffering from chronic, rapid heartbeats. He is an electrical and bioengineering graduate.

■ **Richard E. Tomlinson II** of Chicago, partner in Skidmore, Owings & Merrill LLP, an international architecture and engineering firm. As project administrator, Tomlinson serves as the firm's liaison with clients. He holds an architectural engineering degree from Penn State.



Fifth Anniversary of CQI

With the advent of the fifth Annual Quality Expo on April 17, this is an opportune time to look back over the past five years, revisit the CQI vision and update readers about some of the activities of the Center for Quality and Planning and the Council on CQI:

■ The center continues to develop, implement and evaluate the University's practice of continuous quality improvement, focusing on the core processes of the institution, stakeholder needs and the integration of quality principles into strategic planning.

■ The Human Resource Development Center continues to provide just-in-time CQI training at no cost. **Barbara Sherlock**, an HRDC CQI specialist, teaches many of these courses and provides professional assistance to the University community on an as-needed basis.

■ Recent activities of the Council on CQI include examining academic climate issues, in particular class attendance, and identification of best practices around staff participation in decision-making and policy formation.

Council update

Penn State's latest cycle of five-year strategic planning is being guided by the University Planning Council. On March 27, a panel of council members will provide an overview of strategic planning and answer questions about UPC activities. Panelists are: **Peter Jurs**, immediate past chair, University Faculty Senate and professor of chemistry; **Betty Roberts**, assistant vice president for Business Services; **Bill Mahon**, director of Public Information; and **Louise Sandmeyer**, executive director of the Center for Quality and Planning, moderator. The panel will be held in the Nittany Lion Inn Fireside Lounge from 8:30 - 10 a.m. If you would like to attend this session, please call HRDC at (814) 865-8216 and ask to register for CQI 057.

For more information about Continuous Quality Improvement, please visit the center's Web site at <http://www.psu.edu/president/cqi/> or contact **Louise Sandmeyer**, executive director of the Center for Quality and Planning, at (814) 865-8721, or e-mail LES1@PSU.EDU.

Agricultural Sciences will hold open house

The College of Agricultural Sciences will hold an open house from 8 a.m. to 4 p.m. Saturday, March 22.

"This event gives visitors a chance to see state-of-the-art facilities while learning more about careers and educational opportunities in agriculture," said **Marianne Fivick**, undergraduate recruitment coordinator in the college.

Registration forms and more information about the event are available from the college's Office for Resident Education at (814) 865-7521.

From 8 a.m. until noon on the first floor of the Agricultural Sciences and Industries Building and Henning Building on the University Park campus, visitors can learn more about Penn State at exhibits highlighting student organizations and societies, academic programs and other aspects of the University, including career development and placement, financial aid and housing and food services.

At 9 a.m., participants can take a bus or walking tour of campus, or choose among several specialized tours. Tours also will be held at 1:15 and 2:15 p.m.

An overview of the college will be held at 10 a.m. in 102 Forster Building. Afterward, prospective students can meet with faculty from each of the college's majors for academic information and advising sessions.

The Office of Student Aid will offer an overview of financial aid and scholarships from 1:15 to 2 p.m. in 101 ASI Building. At the same time, an information session for students at the Commonwealth Campuses will be held in 118 ASI Building. "This session will help these students prepare for the change to the University Park campus," Fivick said.

To help increase diversity in the student body an information session will be held for minority students at 2:15 p.m. in 118 ASI Building. At the same time, a panel discussion on women in the agricultural sciences will be held in 101 ASI Building.



A helping hand

Employees of David Manes and Associates in the Lewistown area get Weaver Building on the University Park campus ready for some roof repair work. New red tiles will match the existing ones on the roof. Weather permitting, work on the roof is scheduled to begin this week.

Photo: Greg Gileco

Undergraduate education seeks assistant/associate dean

Applications and nominations for assistant/associate dean for undergraduate education are being accepted. The committee will start considering applications on April 15 and will continue to do so until the position is filled. The position will be available on or after July 1. The assistant/associate dean reports directly to the vice provost and dean for undergraduate education and is a senior member of the dean's leadership team.

The person selected will have special responsibilities for stimulating, facilitating and advancing academic programming carried out during the summer. The position calls for creative and aggressive leadership to strengthen and expand summer programming through existing mechanisms, through comprehensive marketing and, especially, through innovation. Other duties will be assigned as appropriate. Success in this role depends heavily upon cooperation with a variety of University offices, such as Continuing and Distance Education, Computer

and Information Systems, Enrollment Management and Administration, Student Affairs, the Libraries and the colleges at all Penn State locations.

Essential requirements include high energy and creativity, excellent communication skills, team spirit and an entrepreneurial spirit. Candidates should have an earned doctorate, the potential to serve in a tenured faculty position and knowledge of current developments in higher education. Desired qualities include experience in advancement and promotion of academic programs.

A search and screening committee to identify candidates has been appointed by John J. Cahir, vice provost and dean for undergraduate education. Robert Secor, vice provost for academic affairs and personnel, will chair the committee. Members include: Christopher Bise, Centennial Professor and chairman of the Mining Engineering Section, College of Earth and Mineral Sciences; Patricia Book, associate vice president and associate dean,

Continuing and Distance Education; Blannie Bowen, C. Lee Rumberger and family professor of agriculture, College of Agricultural Sciences; Donald Fahline, associate professor of physics, Altoona College; Nakesha Faison, undergraduate student, McNair scholar; Marianne Kuhns, assistant to the dean, facilities and academic studies, College of Health and Human Development; Rose Marra, director, Instructional Services, College of Engineering; Robert Mitchell, professor of biology, Eberly College of Science; and Howard Way, associate dean, undergraduate education. Gloria Briggs, human resources coordinator, and Shelby Hoy, staff assistant in undergraduate education, will serve as staff.

A letter of application, a full curriculum vita and arrangement for three letters of reference should be sent to: Gloria D. Briggs, human resources coordinator, 1-A Old Main, Box IC, University Park, Pa. 16802.

Agricultural Sciences accepting candidates for associate dean

The College of Agricultural Sciences is seeking candidates for the position of associate dean for research and graduate education and director of the Agricultural Experiment Station. The associate dean and director provides leadership and administration for the college's research and graduate education programs. Reporting to the dean of the college, the associate dean and director is a member of the administrative team of the college, which functions in a collaborative and integrative manner across the teaching, research, cooperative extension and outreach functions of the college. Specific responsibilities of this job include:

- Providing leadership, advocacy and facilitation in support of faculty and staff research;
- Coordinating planning, implementation, evaluation and promotion of research and graduate education programs;
- Establishing and maintaining close working relationships and collaborations within the college, with other colleges' programs and institutes of the University, external constituencies and state and federal agencies;
- Encouraging and assisting faculty in securing external funding;
- Serving as liaison to the dean of the Graduate School and serving as a member of the University Administrative Committee on Research;
- Assuring compliance with all applicable institutional, state and federal reporting requirements; and
- Administering three outlying research centers of the college.

Candidates must have a distinguished record of research achievement in a field of study commonly associated with a college of agricultural sciences with credentials appropriate for rank of professor in her/his discipline. Demonstrated excellence in research and effective administrative, leadership and communication skills are essential. The candidate should be thoroughly familiar with the role and missions of a land-grant university.

Please send nominations, application or inquiries to Steven L. Fales, chair, search committee, College of Agricultural Sciences, 201 Agricultural Administration Building, Box DNT, University Park, Pa. 16802. Candidates should submit a letter of application, curriculum vita, two-page summary of her/his view of the challenges facing a leading agricultural research institution and complete contact information for four references. The search committee will review applications and nominations beginning April 15, and will continue to receive them until the position is filled. Women and minorities are encouraged to apply.



Double duty

Stacy Beth Rader, a film major who also is an ice skating instructor, teaches a class of 3- to 6-year-olds at the ice skating rink in the Greenberg Sports Complex on the University Park campus. For information about the classes or other programs at the rink, call (814) 863-7458.

Photo: Greg Grieco

News in Brief

Participants needed for peanut study

Penny Kris-Etherton, distinguished professor of nutrition, is studying the effects of peanuts and peanut butter on blood cholesterol levels. The study begins on March 17 and continues until July 31, with a break for the July 4 weekend.

To be eligible for the study, you must:

- be between 20 and 60 years of age;
- have average blood cholesterol levels (those conducting the study will test);
- be able and willing to eat a wide variety of foods;
- be able to come to the Diet Study Center (in Henderson Building) for two meals a day, Monday through Friday;
- be willing to eat only the foods supplied to you at the center.

Participants will be provided with all of their food during the 20 weeks of the study and will have their blood cholesterol level determined. In addition, participants will receive \$400 for successful completion of the study. For more information about the peanut study, please call (814) 863-3168.

Faculty/Staff Alerts

Intercom schedule

Because of spring break, there will be no *Intercom* published on Thursday, March 13.

Intercom, the faculty/staff newspaper and official voice of Penn State, will return to its weekly publication schedule on Thursday, March 20, and continue to publish weekly until May 1.

The *Intercom* schedule for the remainder of spring semester and for the summer follows:

Publication date	Copy deadline*
March 20	March 12
March 27	March 19
April 3	March 26
April 10	April 2
April 17	April 9
April 24	April 16
May 1	April 23
May 15	May 7
May 29	May 21
June 12	June 4
June 26	June 18
July 10	July 1
July 24	July 16
Aug. 7	July 30

* All copy is due by noon on deadline day. Please note the early deadline on July 1 due to the July 4 holiday.

Library hours for spring break

University Libraries on the University Park campus will maintain the following schedules during spring break, March 7 through 16:

■ Pattee Library and the Branch Libraries*

Friday, March 7: 7:45 a.m. to 5 p.m.
Saturday, March 8: 1-5 p.m.
Sunday, March 9: 1-5 p.m.
Monday, March 10 through Thursday, March 13: 9 a.m. to 9 p.m.
Friday, March 14: 9 a.m. to 5 p.m.
Saturday, March 15: 1-5 p.m.
Sunday, March 16: Regular schedule
**The Music Listening Room will be closed March 8 and 9; opened from 1 to 5 p.m. March 10 through March 14; and closed again on March 15.*

■ Pollock Library

Will close at 5 p.m. Friday, March 7, and remain closed through Saturday, March 15. Regular 24-hour service will resume at noon Sunday, March 16.

For more information on hours of library service, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>

HRDC courses offered

The following courses at University Park are being offered by the Human Resource Development Center. To register for free courses, please call (814) 865-8216. Registration for fee-based courses requires a completed registration form on page 63 of the HRDC course catalog.

■ Coping with Conflict in the Workplace

Provides skills for coping with difficult people and defusing explosive situations. Meets on Tuesdays, March 25 and April 1, from 8:15-11:15 a.m. in 319 Rider Building. Cost: \$55.

■ Developing Effective Study Skills

Provides adult learners with an overview of the skills necessary for success in college. Meets March 14 from 8:30-10:30 a.m. in 319 Rider Building. Cost: \$25.

■ Accelerated Planning through Storyboarding

This program enables participants to lead others through a proven, systematic approach to planning, problem-solving, and decision-making. It emphasizes the use of storyboarding, a technique for achieving focus and flexibility throughout the planning process. Meets Mondays, March 17, 24 and 31 from 1:15-4:45 p.m. in 319 Rider Building. Cost: \$75.

■ Students in Distress: Guidelines for Faculty and Staff Interventions

Participants will be exposed to basic principles and effective responses in order to maximize student safety and successful referral for psychological services. Meets March 24 from 10 a.m. to noon in 118 Agricultural Science and Industries Building.

Health Promotion Programs

To register for any of the following programs, contact Jan Hawbaker at 865-3085 or JQH3@psu.edu.

■ Yoga Series — new section added

Rejuvenate during the workday by participating in this ongoing series. Section three meets from 11 a.m. to noon Tuesdays, March 18 to April 29, in 110 Henderson Building (The Living Center). Cost is \$35 per session, reimbursable to HMO participants who are taking this class for the first time.

■ Culinary Hearts Kitchen

Learn how to cut fat, cholesterol and calories in daily meals. Meets from 4 to 6 p.m. Wednesdays, March 19 to April 23, in Room 7 Henderson Building. Cost is \$40, reimbursable to HMO participants.

■ HIV/AIDS Network Update

Designed for members of Penn State's "You Can Ask Me About AIDS" Network, this session will discuss new information and issues related to HIV/AIDS, as well as explore ways to improve the effectiveness of the network. Meets Monday, March 17, from 12:30-2 p.m. in 16 Ritenour Building. Cost: None. Participants may attend a meeting of the HIV/STD Consortium which precedes the session from 11 a.m. to 12:30 p.m.

■ Health Matters Series — The Signature Program of Faculty/Staff Health Promotion

In this six-week series, a health educator assists participants in exploring and examining various components of wellness, setting goals and determining pathways of success. Group meets Thursdays, March 20-April 24, from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost is \$30, reimbursable to HMO participants.

■ Health Promotion at Altoona College Wellness and Employee Assistance (EAP) Program: Special Informal Discussions

All programs meet in 101 CAC of the Altoona College. To register, contact Ruth or Cheryl at (814) 949-5020 or (814) 949-5021. Cost: None.

March 27: EAP: The Supervisor's Role. 9-10 a.m. and 1:30-2:30 p.m.; Conflict Resolution, 10:30-11:30 a.m.; Managing Change, 3-4 p.m.

Federal Express price change

Due to a temporary fuel increase, Federal Express has increased its prices on all shipments tendered within the United States to compensate for the extra cost. As the non-profit campus mailing center, Mailing Services has no choice but to recover this increase from its customers.

The duration of this price increase is unknown,

but Federal Express has emphasized that it is temporary. If you have any questions or comments about the increase, please contact Gregg J. Ascuitto, manager of Addressing and Mailing Services, at (814) 865-9171.

Office relocation

The Office of the Senior Vice President for Research and Graduate Education has relocated to 304 Old Main from its former location of 207 Old Main. The staff relocating are Rodney Erickson, Jack Yost, Ginny Imboden, Jan Smith and Lori Bryan. Telephone numbers remain the same.

Education technology listserv

Education Technology Services in the Center for Academic Computing has created a moderated listserv to distribute announcements that would be of interest to Penn State faculty and staff working with education technology. This listserv is not meant to be a forum for discussion, but a way to quickly release announcements. To subscribe to the listserv, anyone at Penn State can simply send e-mail to listserv@psuvm.psu.edu. In the body of the note (not the header) type: SUBSCRIBE L-ETA <your full name> (Note: you MUST actually type in the name, but use your name, such as John Smith.)

Dial-in service changes

Due to changes in support for central dial-in services providing access to the data backbone via modem at University Park, the Office of Telecommunications will discontinue the existing dial-in service at (814) 863-9600 on July 1. Effective immediately, account requests for the old dial-in service will no longer be accepted. Users who require a fixed dial-in IP address should apply for a new account to move to the newly introduced OTC-supported modem and ISDN dial-in service at (814) 863-2828 before July 1.

This new dial-in service provides access to the data backbone via modem at speeds of up to 28.8Kbps or ISDN hardware at speeds of up to 128Kbps. The service increases the bandwidth over the existing connection for faculty and staff who need access to more demanding resources on the Internet.

Users of (814) 863-9600 who do not require a fixed IP address are encouraged to use CAC's services. In addition, anyone converting from the old dial-in service who connected to OAS will need to inform OAS that their IP address has changed.

Additional information is available at the Office of Telecommunications Web site at <http://www2.etc.psu.edu/data/isdnandhtml>.

New award created, nominations sought

The Donald W. Davis Award for Ethics in Advertising, funded through a donation to the College of Communications from 1942 alumnus Donald W. Davis, will be given this May to an advertising practitioner or academic who has made a significant contribution to ethics in advertising. The award, to be administered jointly by the American Advertising Federation (AAF) and the Penn State College of Communications, will be given annually and carries a \$1,500 prize.

Nominations will be accepted from any working or retired advertising practitioner or educator. The nomination should include a statement of why the nominee should be honored, evidence of his or her contribution and a biographical sketch of the nominee. The deadline for nominations is March 31.

The ARTS

AT PENN STATE



Coming in April

Sesame Street Live "Let's Be Friends" will be at The Bryce Jordan Center on the University Park campus April 1 and 2. For tickets, call (814) 865-5555 or (800) 863-3336.

Odyssey on WPSU

On the March 9 episode of *Odyssey Through Literature* Emmanuel Matateyou, Fulbright Scholar from the Ecole Normale Supérieure in Yaounde, speaks with host Leonard Rubinstein of the origins of writing and storytelling in Cameroon.

Matateyou explains how Shumam, the writing system of Cameroon, started with pictographs which represented events in the environment. He explains how this writing system underwent an evolution like no other system of writing ever has in such a short period of time. This evolution is what made the Shumam alphabet similar to the Western alphabet today.

On the March 16 episode, Rubinstein discusses the traditions and history of Ukranian blind bards, or kobzars, with Natalie Kononenko and Pavlo Suprun.

Suprun starts by singing a song about Chernobyl filled with powerful imagery. The song describes the escaping radiation as a dragon, as the ancient enemy that burned the countryside. The bards often compare ancient events to more recent events, explains Kononenko, Suprun's translator and a professor of Slavic lan-

guages and literature at the University of Virginia. The kobzars also traditionally sing of sad events, which is why the Chernobyl disaster can be integrated into the bardic culture, Kononenko says.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WPSU 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://mickley.la.psu.edu/complit/odyssey/odyssey.htm>

Penn College schedule

Upcoming events at the Community Arts Center stage, part of the Pennsylvania College of Technology, in Williamsport include:

- "Tommy," the Who's classic rock opera, at 7:30 p.m. March 12.
- Toby Keith, platinum-selling country star at 7:30 p.m. March 22; tickets are \$28.50/\$23.50/\$18.50.
- "Sesame Street LIVE" at 7 p.m. April 4 and 10:30 a.m., 2 and 5:30 p.m.

April 5; ticket prices range from \$8.75 to \$12.75.

■ "Enchanted Evening," presented by The Williamsport Symphony Orchestra, at 8 p.m. April 12; tickets range from \$12 to \$35.

■ Contemporary Christian acts 4 HIM/Point of Grace at 7:30 p.m. April 15; tickets are \$18.50/\$16.50/\$13.50.

For tickets or additional information, call the center box office at (717) 326-2424 or (800) 432-9382.

Bach's lunch

The Singing Lions, a show choir directed by Peter Keifer, music instructor, will perform at the Bach's Lunch concert on Thursday, March 13, at 12:10 p.m. in the Helen Eakin Eisenhower Chapel on the University Park campus.

The free, 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

The Singing Lions provide programs on and off campus which include a variety of American popular music — jazz, Broadway, movie themes, country-western, patriotic and inspirational music. The Bach's Lunch program will feature some of this repertoire.

The Singing Lions consists of 12 singers and three accompanists and technical support members. The group also will present a concert in Eisenhower Auditorium on the University Park campus on April 27.

Audience members may take a bag lunch to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Legendary bluesman at University Park

Legendary blues artist B.B. King is coming to Eisenhower Auditorium on the University Park campus at 8 p.m. Monday, March 31. Tickets are \$22 for students and \$24 for the general public and are on sale at Eisenhower Box Office, phone (814) 863-0255 or 1-800-ARTS-TIX.

Since his first recording in the late 1940s, B.B. King has been entertaining audiences across the globe. This rhythm and blues legend has topped the charts with countless hits and has been recognized with the Grammy "Lifetime Achievement Award" and has been inducted into the Rock and Roll Hall of Fame.

B.B. King's performance is being presented by the University Concert Committee.

Pennsylvania Centre Stage 1997 season

Pennsylvania Centre Stage, the summer professional theatre at Penn State,



BRYCE JORDAN CENTER

Upcoming events

■ March 7-9: 13th Annual Builders Association Home Show, Friday, noon to 9 p.m.; Saturday, 10 a.m. to 9 p.m.; Sunday, noon to 5 p.m. Admission: \$3, parking free.

■ March 22-23: Thunderdome! Monster Trucks, Saturday, 8 p.m.; Sunday, 2 p.m. Tickets are \$12 for reserved seating.

■ March 29: Kiss, 7:30 p.m. Tickets: \$40 and \$28.50 for reserved seating.

■ March 30: Phil Collins, 8 p.m. Tickets: \$45 and \$28.50 for reserved seating.

■ April 1-2: Sesame Street Live "Let's Be Friends," April 1 at 7 p.m.; tickets: \$8.50, April 2 at 10:30 a.m. and 7 p.m.; tickets: \$13.50, \$11.50 adults; \$12, \$10 children (1-10).

■ April 3-7: Garth Brooks, SOLD OUT.

■ April 19: World Wrestling Federation, 8 p.m. Tickets: \$18, \$14 and \$10.

For more information on Jordan Center events, visit the Web at <http://www.bjc.psu.edu>

announced its 1997 lineup, which includes four shows at University Park:

■ "You're a Good Man, Charlie Brown," which runs from June 6 through 21 in the Pavilion Theatre, a family musical that follows the adventures of Charles Schulz's "Peanuts" characters;

■ "The Mousetrap," scheduled for June 13 through 26 in The Playhouse. An eerie comedy of murders by Agatha Christie, it is the longest-running play of all time on the London stage;

■ "Misalliance," George Bernard Shaw's modern mockery of the age-old institution of marriage, will play from July 11 through 26 in the Pavilion Theatre; and

■ "A Chorus Line," a story of the young women and men who audition for a Broadway show chorus line, will show July 18 through Aug. 2 in The Playhouse.

Pennsylvania Centre Stage allows students to participate in productions with professional actors, directors and designers and is currently in its 12th season. For a free brochure or tickets, contact The Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Saturday, March 15

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium, "JAZZ Dance/Danny Buraczek." For tickets, phone (814) 863-0255.

Monday, March 17

School of Music, 8 p.m., Recital Hall. Student Recital presents Jaime Pomponio, flute, and Molly Brennan, oboe.

Tuesday, March 18

School of Music, 8 p.m., Recital Hall. "Centre Dimensions," Dan Yoder, director. For tickets, phone (814) 865-0431.

Wednesday, March 19

School of Music, 8 p.m., Recital Hall. Scholarship Competition, through March 20.

Friday, March 21

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk by Robin Seymour on "Painting by The Eight at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Schwab Auditorium. "Arts Quartet." For tickets, phone (814) 863-0255.

SEMINARS

Tuesday, March 18

The Population Research Institute, 11:45 a.m., 406 Oswald Tower. Michael Flinn to discuss his population research.

Catholic Faculty and Staff Fellowship, noon to 1 p.m., 212 Eisenhower Chapel. E.P. Roy III on "Physical Aspects of the Death of Christ."

Center for Women Students, noon to 1 p.m., CWS Resource Room, 120 Boucke. Lynn Sherr on "Susan B. Anthony Slept Here."

Geoscience, 4 p.m., 112 Walker. Margaret Kneller on "When did Warming after the Last Ice Age First Occur? Pollen Evidence from the North American East Coast."

Nutrition, 4 p.m., S-202 Henderson. Rebecca Stoltz on "Parasites, Anemia and Growth in Zanzibari School Children."

German, 4:30 p.m., 109 Boucke. Donald F. Dumbaugh and Juergen Eichhoff on "Pennsylvania's Crazy Quilt of German Religious Groups."

MFA, 7:30 p.m., Hotel Union Building, Gallery Lounge. Diana Hume George will read from her new book, *The Lonely Other: A Woman Watching America*.

Wednesday, March 19

Women's Studies, noon to 1 p.m., 12 Sparks. A video on "The Role of the First Lady."



Frontispiece portrait from *Memoirs and Poems of Phyllis Wheatley, a Native American and Slave*, Boston, 1838, is among the items on display on the University Park campus in Palfrey Library's Rare Books Room. The exhibit, "African American Slavery and the Abolitionist Movement in the 19th Century," will be on display through March 7.

■ Center for Russian and East European Studies, noon, 124 Sparks. Tatyana Sayenko on "Ukraine-USA: Cross-Cultural Differences in Economic Rhetoric."

Gerontology Center, 12:15 to 1:15 p.m., The Living Center, 110 Henderson. Steven H. Zarit "The Adult Day Care Collaborative Study: Preliminary Findings."

Geosciences, 3:30 to 4:30 p.m., 541 Deike. John R. Kleist on "Supply Challenge for North America Natural Gas: How will Technology and Earth Scientists make an Impact?"

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. Donald A. Koss on "Fracture of Steels."

Thursday, March 20

Physics, 3:30 p.m., 101 Osmond Laboratory. Pablo Laguna on "Ray-Tracing the Cosmic Microwave Sky."

American Studies, 4 p.m., 102 Weaver. Virginia Smith and Lynda Goldstein on "Martha Stewart as Cultural Icon."

Food Science, 4 p.m., 117 Borland Laboratory. Larry Spence on "Maybe Teaching was a Bad Idea."

Palmer Museum of Art, 7:30 p.m., Palmer Union Auditorium. Walter Reuben on "The Making of a Photographer."

Friday, March 21

Office for Minority Faculty Development, 2 to 4 p.m., 301A Agricultural Administration. Fred Cannon, Dan Trevino, Lisa Williams Walton and Howard Way on "Teaching and Mentoring Minority Undergraduates (Effective Approaches and Strategies)." Reservations must be received by Tuesday, March 18, phone (814) 863-1663.

EXHIBITS

HUB Art Alley Cases

■ Office of International Students presents "International Festival," through April 6.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Photographic work of David Driscoll, through April 6.

Kern Flat Cases

Jewelry by Laveta Piemme, through April 6.

Kern Tail Cases

Handwoven and handspun items by The State College Weavers Guild, through April 6.

Palmer Museum of Art

"Dismal Science: Photo Works by Allan Sekula, 1972-1996," through March 16.

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 15.

Zoller Gallery

School of Visual Arts, "Undergraduate Juried Exhibition," through March 28.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cas.psu.edu/calendar/>

MARCH 7 - MARCH 21

Bookshelf

John Fixel, associate professor of economics at Penn State Erie, The Behrend College, has had his book, *Baseball Economics: Current Research*, published by Greenwood Publishing Co. of Westport, Conn. Fixel, who edited the book along with Elizabeth Gustafson and Lawrence Hadley, is a microeconomist who has published on a variety of topics including amateur and professional sports.

Baseball Economics: Current Research is a collection of essays by 14 professional economists who analyze the current economic issues in major league baseball. Topics addressed include the impact of construction of new stadiums on attendance, players' salaries, cost of player development and free agency.

Powder Metallurgy Science, by Randall M. German, holder of the Brush Chair in materials, has been translated into Japanese. The book is published by the Metal Powder Industries Federation. This text provides the information necessary to understand the various technological aspects of powder metallurgy, a processing approach which is a subdivision of the metalworking technologies. The applications and specific engineering details provided by this book are used as illustrations while generic principles are emphasized. The book is intended as a text and introductory reference.

Heinz K. Henisch, professor emeritus, and Bridget A. Henisch are the authors of *The Painted Photograph, 1839-1914: Origins, Techniques, Aspirations* published by The Penn State Press. The book is a comprehensive history of overpainting, from its origins to World War I.

With its rich variety of illustrations in color and duotone, the book features 131 illustrations, which draw upon original 19th- and early 20th-century sources. Included are discussions of overpainted death portraits, most commonly those of children, and the origins of popular "picture postcards" featuring overpainted landscape scenes. Both authors have published widely on photo-historical themes, most recently *The Photographic Experience, 1839-1914: Images and Attitudes* (Penn State Press, 1994).

Charles Prebish, associate professor of religious studies, was recently appointed co-editor of a new series of scholarly books devoted to the subject of Buddhism by Curzon Press. With home offices in the United Kingdom, Curzon Press is one of the largest publishers of books on Asian studies in the world. Curzon Press books are distributed in North America by the University of Hawaii Press.

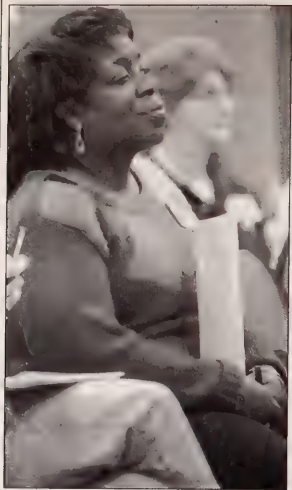
The Critical Studies in Buddhism Series is a comprehensive study of the Buddhist tradition. The

series will explore the complex and extensive Buddhist tradition from a variety of perspectives, using a range of different methodologies. The series also will present materials on modern intellectual historical studies, including the role of Buddhist thought and scholarship in contemporary, critical context and in current social issues.

Jorge Pullin, assistant professor of physics and a researcher in the Center for Gravitational Physics and Geometry, and Rodolfo Gambini of the Universidad de la Republica in Uruguay have co-authored a book titled *Loops, Knots, Gauge Theories and Quantum Gravity*. The book is an introduction to applications of loop representations and knot theory in particle physics and quantum gravity. Loop representation is of great interest to physicists because it provides a unified arena for the study of fundamental forces in quantum gravity. The final chapter assesses the current status of the theory and proposes direction for future research.

The book, published by Cambridge University Press, is written with a foreword by Abhay Ashtekar, holder of the Eberly Family Chair in physics and director of the Center for Gravitational Physics and Geometry.

■ Exploring options



Janitorial worker Ossie Parker, left, listens as Billie Wilits, assistant vice president for human resources, above right, speaks during a workshop for technical service employees at Johnston Commons on the University Park campus. Betty Roberts, assistant vice president for business services, seated next to Wilits, also spoke. The workshop, sponsored by the Commission for Women, was designed to help participants explore non-traditional occupations and to assist in developing strategies for balancing work and personal life.

Photos: Greg Grieco

Student affairs seeks award nominations

The Office of Student Affairs is accepting nominations for the Vice President's Award for Outstanding Service to Students and the Vice President's Award for Quality Improvement.

The Outstanding Service to Students award recognizes student affairs employees at University Park who demonstrate exemplary service to students. The selection committee will evaluate the nominees based on dedication to excellence in providing services to students; professionalism in interactions with students; evidence of sensitivity to the diverse student populations served; and evidence of "going the extra mile" in serving students. Nominations will be accepted from students, administrators, staff or faculty members until Tuesday, April 1.

The Vice President's Award for Quality Improvement recognizes individuals and teams at University Park for

meritorious quality improvement initiatives. This award will go to a nominee or nominees who did an exemplary job examining an issue related to the quality of the division's/unit's programs and/or services; interacting with stakeholders of the processes to identify outcomes; engaging in appropriate benchmarking and data gathering activities; identifying effective performance measures; and implementing change, if appropriate. Nominations may be made by any student affairs staff member until Tuesday, April 1.

Nomination forms for both awards are available at many student affairs offices on the University Park campus including the HUB desk, Paul Robeson Cultural Center and in 135 Boucke Building, or by phone at (814) 865-0181. Recipients of these awards will be recognized at the Student Affairs Awards Reception in May.

Obituaries

Susanne Doucette, administrative aide, Undergraduate Programs, from June 1, 1965, until her retirement March 1, 1990; died Jan. 6. She was 69.

Charles Golab, assistant professor of general engineering at the Mont Alto campus, from Sept. 1, 1963, until his retirement Dec. 1, 1980; died Feb. 1. He was 81.

Gilbert E. Hutchinson, assistant professor of engineering at the DuBois campus, from Sept. 1, 1972, until his retirement Sept. 1, 1982; died Feb. 7 at the age of 79.

Edith L. McIlvaine, janitor, Maintenance and Utilities, from Sept. 15, 1955, until her retirement March 1, 1968; died Jan. 28 at the age of 91.

Hugo A. Meier, associate professor of history in the College of the Liberal Arts, from Sept. 1, 1963, until his retirement June 30, 1983; died Jan. 30. He was 81.

Sadie M. Powell, counter attendant, Housing and Food Services, from Aug. 29, 1960, until her retirement July 1, 1975; died Dec. 14, 1996. She was 87.

Byron M. Robinson, associate professor of general engineering at Abington College, from Sept. 16, 1967, until his retirement June 30, 1987; died Feb. 11. He was 74.

Perrina G. Shultz, laboratory technician in the College of Agricultural Sciences, from Sept. 1, 1949, until her retirement July 1, 1976; died Dec. 20, 1996 at the age of 82.

James E. Wright Jr., professor of genetics in the Eberly College of Science, from Sept. 1, 1947, until his retirement Oct. 19, 1983; died Jan. 21. He was 73.

Henry L. Yeagley Sr., professor of physics, from Feb. 1, 1925, until his retirement Aug. 1, 1958; died Dec. 26, 1996. He was 97.

Funding sources for faculty projects

Detailed information on Penn State funding sources for faculty projects has been assembled in a new informational pamphlet from Socrates, an informal, cross-unit committee whose goal is to improve faculty access to the many resources available for enriching the teaching and learning process.

Funding sources outlined in the pamphlet include programs run by Continuing and Distance Education, the Center for Academic Computing/Educational Technology Services; the IDP Center for Excellence in Learning and Teaching; the Center for Learning and Academic Technologies, Commonwealth Educational System; and the Schreyer Institute for Innovation in Learning.

The pamphlet also includes thumbnail sketches of the groups involved in Socrates, including the Center for Academic Computing, the IDP Center, and the Schreyer Institute. Currently, only a limited number of copies of the pamphlet is available, but the University hopes to reprint it for distribution to all faculty.

Information on faculty resources also is available through the Faculty Services for Instructional Design, Production and Delivery Web site at <http://jets.cac.psu.edu/FacultyServices/>.

Penn Staters

Fourteen scholars and researchers in Penn State's College of Agricultural Sciences have been recognized by the American Society of Agricultural Engineers (ASAE) for the third edition of *The Dairy Reference Manual*.

The manual earned a Blue Ribbon Award in ASAE's 1996 Educational Aids Competition. Nearly 100 entries were displayed and judged at the ASAE Annual Meeting. The manual was among 20 entries to receive recognition.

Penn State faculty and staff who contributed to the manual included **Richard Adams**, professor emeritus of dairy science; **John Comerford**, associate professor of animal science; **Stephen Ford**, associate professor of agricultural economics; **Robert Graves**, professor of agricultural engineering; **William Heald**, professor of dairy science; **Jud Heinrichs**, professor of dairy science; **William Henning**, associate professor of animal science; **Lawrence Hutchinson**, professor of veterinary science; **Virginia Ishler**, program assistant in dairy and animal science; **Michael O'Connor**, professor of dairy science; **Lawrence Specht**, professor emeritus of dairy science; **Stephen Spencer**, professor emeritus of dairy science; **Giabella Varga**, professor of animal science; and **Robert Yonkers**, assistant professor of agricultural economics.

The American Society of Agricultural Engineers presents the Educational Aids Blue Ribbon Award each year in recognition of outstanding effort and

achievement in the development of noteworthy educational aids.

Kathleen Barry, Department of Human Development and Family Studies, was the invited keynote speaker for "Violence, Abuse and Women's Citizenship: An International Conference" in Brighton, U.K. She also has been awarded the 1997 Visiting Professorship at the Queen's University, Belfast, Northern Ireland.

Penn State Harrisburg faculty member **Melvin Blumberg** has been invited to serve as a member of the 1997 Board of Examiners for the Malcolm Baldrige National Quality Award. Blumberg, a professor of management in the School of Business Administration, is one of 400 quality experts selected nationwide to be an examiner for business, education and health care organizations.

The Malcolm Baldrige National Quality Award was established by law in 1987 to improve America's competitive edge by promoting quality awareness and excellence.

Robert Brooks, associate professor of wildlife ecology, was elected chair of the 30-member Wetland Protection Advisory Committee of the Pennsylvania Department of Environmental Protection.

Paul Dimick, professor of food science, spoke on the use of fractionated milk fat in chocolate formulation

at the Production and Application of Confectionery Fats Symposium, sponsored by the Society of Chemical Industry in London, England.

Penn State Behrend cross country Coach **John Drew** has been named one of the head track and field coaches for the World Scholar-Athlete Games scheduled for this summer. More than 2,200 athletes from 100 countries will be competing and participating.

Joy Ellwanger, research support technician in veterinary science, was appointed to serve on the State Board of Veterinary Medicine until the year 2000.

Wolfgang E. Ernst, professor of physics, has been selected as a member of the International Advisory Committee of the Annual International Symposium on Molecular Spectroscopy sponsored by the U.S. Army Research Office and The Ohio State University.

Rick Gray, associate professor of theatre arts, is the project manager for construction of the new Cirque du Soleil theater at the Bellagio Hotel in Las Vegas. The show and theatre will cost an estimated \$70 million. The theatre will have an unusual element — the stage will be a pool for a water show. Cirque du Soleil is a world renowned theatrical troupe based in Montreal with four companies touring worldwide and a permanent venue at Treasure Island Hotel in Las Vegas.

Pioneering women

continued from page 1

"The formation of the Commission for Women really sent a dramatic message to the University community that women mattered and that the institution was really stepping out and saying, 'This is a group that is going to advise the president on women's issues,' and implicit in that message was the sense that changes would happen," said **Carol Cartwright**, a founding member of the commission.

At the time, Cartwright, now president of Kent State University in Ohio, was a professor of education and acting associate dean for the Commonwealth Educational System. As one of the few women in an administrative role, Cartwright said that timing, hard work, planning and a little bit of luck helped the commission come together to help raise awareness and open discussion on women's issues.

Louise Sandmeyer, another founding member, said that although national and statewide events involving women's rights played a role in the creation of the commission, she believes it was "what was going on here" that prompted University women to come together.

Sandmeyer, who at the time was a counselor in Career Development and Placement Services, said that before the commission was formed there was a clear need for more services for women students. There was no returning adult center, limited child care, no women's resource center and few women in positions of influence who could take action on these issues.

"There was a strong community of women who were not satisfied with the status quo," Sandmeyer said. From this dissatisfaction sprouted several initiatives, including the 1983 establishment of the Center for Returning Adult Students; the 1985 creation of the Center for Women Students; the birth of the Women's Studies Program; a raised awareness of sexual harassment issues; an expansion of child care options; the formation in 1986 of the Administrative Fellows program to help women and minorities gain

a foothold in the administrative ranks; and an unprecedented Study on the Status of Women at Penn State — a University-wide look at conditions for female employees.

In that first study, which has since been reassessed and updated several times, more than 1,000 women across the University participated in meetings to voice their concerns and make suggestions for improvements. The ongoing study, which took nearly two years to complete, resulted in more than 192 recommendations to help the University continue its forward progress on women's issues — many of which have been implemented. The study looked at issues such as institutional climate, academic programs and recruitment, retention and advancement opportunities for women.

In an update to the Board of Trustees last fall, the Commission for Women reported that since 1985 — the inaugural year of the landmark study — there has been an 88 percent increase of women faculty at University Park and a 33 percent increase in CES. The commission also noted the increase in child care options. The recent announcement of the construction of a child care facility at the Research Park at University Park boosts the list of available care opportunities. There is still concern over the lack of sustained and substantial growth in the numbers of women in leadership.

As president of Kent State, Cartwright said she is still often the only woman at the table. She was the first female to be named president of any public institution in Ohio and previously in 1988, was the first woman vice chancellor at the University of California at Davis.

"But for Penn State, that first significant study and evaluation would not have been possible at the time without the commission," Cartwright said.

Nancy Tischler, director of Summer Sessions and professor of English and humanities, agrees and said the first commission allowed women to make

Honorees

The 20 women being honored on March 17 for laying the foundation for today's commission include:

Maureen Carr; **Carol Cartwright**; **Patricia Farrell**; **Jane Gamble**; **Rita Hammond**; **Cynthia Johnson**; **Kathryn Johnson**; **Barbara Kautz**; **Jane McCormick Lewis**; **Nancy Lyday**; **Melanie Miller**; **Kathryn Moore**; **Wendy Oakes**; **Jane Oliver**; **Rosanel Oswald**; **Audrey Rodgers**; **Louise Sandmeyer**; **Jackeline Schoch**; **Joan Thomson**; and **Nancy Tischler**

important inroads. Tischler was also a member of the 1981 commission board. **Maureen Carr**, professor of music theory at Penn State and a member of the first commission, thinks the commission's most important contribution, which is still evident today, has been the establishment of a network of women at a University the size and scope of Penn State.

"That was a very special time and I felt privileged to be invited to participate. I feel good that the commission has gone beyond its original intent to further the goals of women and has expanded," Carr said.

"That first commission had a lot of energy to get things done, because a lot of things needed to be done," Sandmeyer, now executive director of the Center for Quality and Planning said. "Women need to work hard to keep a conscience when they get into leadership positions. They need to continue to take risks, be visible and be a voice for fairness and equity."

"The first commission really set the tone for what is happening today," **Anne Ard**, senior diversity planning analyst, said. "And in terms of changes the commission has made in areas that really impact a lot of women at the University — like child care, flex time, benefits, professional development and more opportunities for advancement — those changes have been significant over the last 15 years."

Private Giving

Four to join campaign steering committee

Three central Pennsylvania residents and a western Pennsylvania native have been named members of the steering committee for Penn State's upcoming capital campaign.

The members are **James Broadhurst**, chairman and CEO of Pittsburgh-based Eat'n Park Restaurants; **Marian "Mimi" U. Coppersmith Fredman**, president of the Barash Group publishing and advertising firm of State College; **Barbara R. Palmer**, a State College philanthropist; and **Philip H. Sieg**, chairman of the Sieg Financial Group of Bellefonte.

The new campaign will aim to raise private funds for scholarships, graduate fellowships, faculty endowments and a variety of academic programs. The campaign's dollar goal will be announced later. President **Graham B. Spanier** said.

"Phil, Mimi, and Barbara have been vital supporters of Penn State in the past and the value of their in-depth knowledge of the University and this region cannot be overstated. Jim is one of the most highly regarded leaders in the Pittsburgh region and is well known there for his support of Penn State," Spanier said. "Penn State has more alumni in Allegheny County than any other county in Pennsylvania, and more students attend Penn State from Allegheny County than from any other county except Centre."

Broadhurst, a native of Titusville and a 1965 Penn State graduate in economics, will chair the volunteer committee that seeks major gifts



JAMES BROADHURST



MARIAN "MIMI" U. COPPERSMITH FREDMAN



BARBARA R. PALMER



PHILIP H. SIEG

from other Penn State alumni and friends in the Pittsburgh region. Broadhurst and Eat'n Park have supported such Penn State efforts as the construction of the Mater Building for the School of Hotel, Restaurant and Recreation Management, The Hershey Medical Center's Four Diamonds Fund and WPSX-TV programming. In January, Penn State named him a Distinguished Alumnus, the highest honor it bestows on its graduates.

Coppersmith Fredman, a native of Kingston, is a 1954 Penn State graduate in journalism and a member and past president of the University's Board of Trustees. She has been a volunteer with and donor to a variety of Penn State efforts, including the Renaissance Scholarship Fund, the Palmer Museum of Art and Alumni Communications advisory boards, the University Libraries, The Bryce Jordan Center, the College of the Liberal Arts, the Pennsylvania Centre Stage and the

Wilkes-Barre campus Center for Technology.

Palmer, a former director of C-Cor Electronics and an honorary Penn State alumna, will encourage support for the arts and programs for students as her primary role in the campaign. A 1946 graduate in home economics from Iowa State University, she is a past president and member of the board of directors of the Friends of the Palmer Museum and a current member of the advisory boards to the Palmer Museum and the Renaissance Scholars Fund.

In 1986, she and her husband, retired C-Cor founder and executive **James R. Palmer**, were the primary donors toward the expansion of the University's museum of art, which was renamed in their honor. Other gifts have created the Palmer Chair in Telecommunications and supported the construction of the Mater Building for the School of

Hotel, Restaurant and Recreation Management.

Sieg, a Bellefonte native and a 1957 Penn State graduate in business administration, will chair the central Pennsylvania segment of the campaign. Before starting the real estate-oriented Sieg Financial Group, he and a partner formed the Federated Home & Mortgage Co. to develop and manage a chain of Holiday Inns in Pennsylvania and three other states, and Tofrees, Pennsylvania's first planned community.

Sieg and his wife, **Judy**, a 1959 graduate in journalism, were supporters of the Campaign for the Library at Penn State and of the campaign for The Bryce Jordan Center. They also created a professorship in The Smell College of Business Administration and aided the recent expansion efforts of WPSU-Radio. Penn State named Philip Sieg an Alumni Fellow in 1988 and a Distinguished Alumnus in 1993.

Tulane president emeritus pledges \$100,000 to Agricultural Sciences

Herbert E. Longenecker, president emeritus of Tulane University, has committed \$100,000 to the College of Agricultural Sciences. The college will use the gift to create an endowment that will enable undergraduates to conduct research under the direction of faculty mentors.

"What I experienced as a student at the University, I have always sought to make possible for other students. My hope is that undergraduates will continue to have opportunities to initiate and conduct research projects," Longenecker said.

Longenecker earned his bachelor's, master's and doctoral degrees from the University in agricultural biochemistry in the 1930s. In 1936, he won a national competition for a National Research Council post-doctoral fellowship for research in England, Germany and Canada.

Before serving as president of Tulane from 1960-1975, Longenecker

was vice president in charge of the University of Illinois' medical center in Chicago and taught at the University of Pittsburgh from 1938-1955. Active in military, business and civic pursuits, Longenecker was a member of the Food and Nutrition Board, an adviser to the Army Chemical Corps on defense against biological and chemical warfare, and chair of the Department of Defense advisory committee.

A Birmingham, Ala., resident, Longenecker also has served as chairman of the Nutrition Foundation, as a trustee of both the Bush Foundation and the Alfred P. Sloan Foundation, and as a director of CPC International and of the Equitable Life Assurance Society. Penn State named him a Distinguished Alumnus in 1960, the highest honor it can bestow on its graduates.

The University will invest his gift in its endowment fund.

Endowment to aid Schuylkill County

Jim Stine headed Cressona Aluminum Co. — one of Schuylkill County's largest employers — for more than 15 years before retiring in 1995. Now, as a way of saying thanks to the community for supporting the company, he and his wife, **Peg**, have committed \$500,000 to endow scholarships for Penn State students who are Schuylkill County residents.

He headed the management team that formed Cressona Aluminum Co. in 1979, shortly after the Cressona-based plant was closed by its original owner, Alcoa. Under his leadership, it became a nationally acclaimed model for good customer and employee relations. The firm now ranks as America's largest aluminum extrusion manufacturer.

The Stines, who now reside in Annapolis, Md., designated their endowment to assist undergraduates who have both outstanding academic records and financial need. Pref-

erence will be given to students enrolled in business, science or engineering, although superior students in other fields will be considered as well.

Each year, a Jim and Peg Stine Scholarship will be awarded to a student at the Schuylkill campus of the Capital College in the amount of one-half in-state tuition, and a University Park campus student for 75 percent of in-state tuition. The scholarships will begin in 1997-98 and can be renewed. Thus, when the scholarship is in full effect, at least eight students will benefit in any given year.

Jim Stine's affiliation with Penn State dates from the late 1980s, when he co-chaired a Schuylkill campus campaign that raised more than \$1 million in private gifts to help build what is today the Cletti Memorial Library. In addition, the Stines' son, **David**, and daughter, **Sarah**, both attended University Park.

Programs still helping students succeed in college

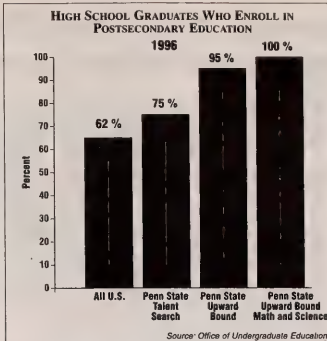
A small group of Penn State programs for low-income and first-generation college students is making a big difference in the success rate of high school seniors who graduate and continue their education.

In cooperation with school districts in central and western Pennsylvania, Penn State offers the federally funded Upward Bound and Upward Bound Math and Science programs for high school students and Talent Search program for students in grades six through 12. The results of these TRIO programs have been remarkable, according to **Howard Wray III**, associate dean for undergraduate education, who supervises the University's state and federally funded assistance programs.

"Compared to 62 percent of all U.S. high school seniors who graduated from high school and enrolled in post secondary institutions last year, 75 percent of high school seniors enrolled in Penn State's Talent Search programs, 95 percent of Penn State Upward Bound seniors and 100 percent of Penn State Upward Bound Math and Science seniors, enrolled in post secondary institutions," he said. (See chart).

Even more impressive is the fact that Penn State TRIO Programs are enrolling students in colleges from school districts that have substantially lower postsecondary enrollment rates than the national average.

In Upward Bound school districts, 40 percent of graduating seniors enroll in postsecondary institutions, compared to 95 percent of the Penn State Upward Bound seniors; and 58 percent of graduating seniors from Upward Bound Math and Science school districts enroll in postsecondary institutions, compared to 100 percent of Penn State Upward Bound Math and Science seniors. Upward Bound enrolls about 120 stu-



dents annually and Upward Bound Science and Math enrolls 50.

In school districts where Penn State's Talent Search program is offered—Alquippa, Clairton, Duquesne, Farrell, New Kensington and Sharon—49 percent of all graduating seniors enroll in postsecondary education, compared to 75 percent of the seniors in Talent Search. This program serves about 1,200 students each year.

"Penn State also administers three TRIO programs for adults and low-income and first-generation college students, and these also have a remarkable track record of success," said Wray, who oversees these as well.

Among Penn State's college-based TRIO pro-

grams, Student Support Services (SSS) helps low-income, first-generation college students stay in college and graduate through counseling, tutoring, supplemental instruction, academic advising and other academic service. About 200 students are enrolled in the SSS program, which has a retention rate of 81 percent.

The Ronald E. McNair Post-Baccalaureate Achievement Program, which helps prepare low-income and first-generation college students for doctoral study, is the newest of the TRIO programs.

Since 1992, 52 percent of all McNair graduates at Penn State have enrolled in graduate school, and 8 percent have enrolled in doctoral programs. Nationally, only about 28 percent of all college graduates enroll in graduate school and less than 2 percent of low-income college students enroll in graduate schools.

Penn State's program currently enrolls 30 students, including five in a partnership with Virginia State University, a historically black institution.

In 1993, Penn State also initiated a College Assistance Migrant Program (CAMP) in collaboration with the federal government to enroll and serve freshmen from migrant families. CAMP is the only such program in the eastern United States and last year 96 percent of its freshman class returned this fall.

In other programs to provide access to low-income students, Penn State offers a Comprehensive Studies Program through the state-funded Educational Opportunity Program to low-income Pennsylvania students who do not meet traditional admissions criteria. Approximately 90 percent of the freshman in this program return after their first year and since 1990, 61 percent have been retained or have graduated.

"The evidence is clear," said Wray, "Federal and state programs for low-income and first-generation college students work extremely well."

Graduate Research Exhibition will be held March 21-22

Watch a computer simulation of the evaporation process or discover new theories on depression during the 12th Annual Graduate Research Exhibition from March 21-22 in the Kern Building on the University Park campus.

At this event, which highlights a segment of Penn State research, give graduate students a forum for sharing their work with people outside their own fields. For many of the 10,000 graduate students at Penn State, research is the heart of their degree, and as competition for research funds increases, it becomes more and more important for researchers to discuss their work with the general public.

The 150-plus graduate student exhibits in this year's event span the research spectrum from the arts and humanities to engineering, encompassing

health, life sciences, physical sciences, social sciences and behavioral sciences. The public can view posters of the students' work beginning at 10 a.m. on March 22 in the Hetzel Union Building.

On Friday, March 21, **Michael J. Zigmond** of the University of Pittsburgh will open the 1997 Graduate Research Exhibition with a discussion of professional conduct in graduate education. He will speak at 3:30 p.m. in 112 Kern. Zigmond is a professor of neuroscience, psychiatry and education, and his research focuses on the neurobiology of synaptic transmission in the brain, as well as on such neurological and psychiatric disorders as Parkinson's disease, post-traumatic stress disorder and schizophrenia.

Also on Friday, something new this year, beginning at 8 p.m. there will be a performance option in 122

Music II Building. The performance option is designed for graduate students who must perform (music, dance, theatre) or for those whose research or creative activity cannot be presented in a static medium. Performances will be judged by a panel of six for artistry, technique and suitability of the work performed.

The poster exhibits will be judged on content, display and an oral presentation describing the research project. Graduate students will be competing for awards totaling \$10,200.

The Graduate Research Exhibition is sponsored by the Graduate Council Committee on Research and the Graduate School. For more information about the event, see the Graduate School's World Wide Web site at <http://www.gradsch.psu.edu>, and click on the link to "news and announcements."

Internal search being conducted for department head in College of Education

The College of Education is conducting an internal search for the head of the Department of Adult Education, Instructional Systems and Worker Education and Development. The person in this role will be responsible for providing leadership for programs, research and professional service activities of the department; organizing and recommending faculty assignments; evaluating and making recommendations concerning promotion, tenure and salary; maintaining a positive climate of productivity and cooperation among faculty; mentoring tenure-track junior faculty; managing the department's operating budget; serving as chief administrative officer of the depart-

ment; and pursuing relevant scholarship, research and teaching.

Qualifications include appointment as a tenured professor or associate professor in one of the programs within the department; ability to work effectively with students, faculty, staff and other administrative personnel in the college and University, as well as with state and national agencies; knowledge and experience in performing administrative responsibilities and managing a budget; excellent record of teaching, scholarship and research, including experience with funded projects; experience with student advising and program development; understanding of and com-

mitment to school and educational reform; ability to maintain a supportive and nurturing climate; and demonstrated experience and commitment to working with diverse populations.

The appointment will be effective July 1, or as soon after that date as possible.

Interested people should submit applications and nomination to **Francis M. Dwyer**, chairperson, 411 Keller Building, University Park, Pa. 16802. Applicants should submit a letter of interest, a current curriculum vitae, and the names, mailing and e-mail addresses, and telephone and fax numbers of three professional references. The application deadline is April 4.

Awards

Miner Training Program wins four national awards

The Miner Training Program of the Department of Mineral Engineering has won four awards in a national competition for health and safety training materials for the mining industry. The competition was sponsored by the U.S. Department of Labor's Mine Safety and Health Administration through its state grants program and was open to 46 grantee recipients. Entries were judged by independent experts in three categories: coal mining, Mmetal/nonmetal mining and general mining. The Department of Mineral Engineering submitted seven entries.

Penn State entries, consisting of videos and a foreman's pocket handbook, were awarded first-place certificates in each category. The video in the metal/nonmetal category also received the grand prize for best overall entry. The award-winning videos, shot on location at Pennsylvania mines, show the sequence of events leading up to a dramatic injury scene. In the aftermath, actors demonstrate the right and wrong ways to respond to the accident.

The foreman's handbook is a small laminated booklet, a ready reference guide to job information and job responsibilities, presented in an easy-to-use outline form. The materials were developed by **Mark Radomsky**, director of field services, and mine safety instructors **Ron Witt** and **Joe Flick**, and the project was directed by **R.V. Ramanani**, head of the Department of Mineral Engineering.

Revenue manager is box office manager of year

Jill Baldi, revenue manager at The Bryce Jordan Center, has been named box office manager of the year by Box Office Management International.

Baldi has spent 19 years in the industry and was first recognized for her achievements in 1994 when her Penn State campus ticket office at the Center for the Performing Arts was awarded "Box Office of the Year." At the Jordan Center, Baldi supervises approximately 80 employees.

Baldi's duties as revenue manager are a combination of box office manager and arena finance director. She is in charge of purchasing equipment, software and telephone systems, and establishing statewide ticket outlets for the center, as well as developing financial and operational manuals for the ticket center.

Professor earns McGovern medal for work outside her primary field

Nina V. Fedoroff, professor of biology, director of the Life Sciences Consortium, director of the Penn State Biotechnology Institute, and holder of the Verne M. Willaman Chair in life sciences, has been selected by Sigma Xi, the honorary scientific research society, to receive its 1997 John P. McGovern Science and Society Medal. The award is given to scientists based on their interests beyond their specific research area. According to the society, Fedoroff was selected for her interest in "the emerging, important issue of the reform of graduate education as it relates to alternative careers for scientists and engineers."

Fedoroff is perhaps best known for her research on the molecular biology of mobile genetic elements, also known as transposons, in plants and on the developmental regulation of gene expression. She has served on the Council of the National Academy of Sciences, the board of directors of the International Science Foundation and the board of trustees of the Biological Sciences Information Service (Biosis).

She is involved in a number of professional activities in the national and international science communities, among them: as a member of both the National Institutes of Health Recombinant DNA Advisory Committee and the international advisory committee to the Human Frontiers of Science Program; the board of directors of the Genetics Soci-



NINA V. FEDOROFF

ety of America; and as a member of the board of directors of the Sigma-Aldrich Corp. and a member of the editorial board of *The Proceedings of the National Academy of Sciences*, *The Plant Journal* and *Perspectives in Biology and Medicine*.

She served the National Academy of Sciences as a member of three National Research Council organizations and is a member of the International Advisory Board to the Engelhardt Institute of Molecular Biology in Moscow.

In the past, she has received a number of National Science Foundation Undergraduate Research Awards and has held fellowships at various institutions and received a number of national awards. She

presently is the holder of National Institutes of Health MERIT Award. She is a member of the National Academy of Sciences, the American Academy of Art and Sciences, and the Phi Beta Kappa and Sigma honorary societies.

Fedoroff earned her bachelor's degree in biology and chemistry at Syracuse University in 1966, graduating summa cum laude, and her doctoral degree in molecular biology at The Rockefeller University in 1972 and has held numerous positions over the last two decades. She joined the Penn State faculty in 1995. She was named director of the Life Sciences Consortium in 1996.

Associate dean receives Schraer award

Herbert M. Lundegren, senior associate dean of the College of Health and Human Development, has received the Rosemary Schraer Mentoring Award from the Commission for Women. The Schraer award, created in June 1994, recognizes a University employee for mentoring by advising, facilitating, encouraging and/or paving the way for others to recognize and realize their potential in both personal and professional endeavors. The award was established by the family, friends and colleagues of **Rosemary Schraer**, former associate provost of Penn State and former chancellor of the University of California, Riverside.

Lundegren's service to the University spans 37 years. Before serving as senior associate dean, she held the positions of interim dean for the College of Health and Human Development, acting chair for the Department of Recreation and Parks, associate dean for research and graduate studies, and professor of physical education and leisure studies.

Lundegren's commitment to mentoring is evidenced by her Penn State career. She has assisted more than 146



HERBERT M. LUNDEGREN

master's and doctoral candidates, has served as a member and chair of the Faculty Senate, has served on numerous University Graduate Council's advisory committees, and was a member and chair of the Commission for Women.

Several nominators commented that Lundegren has served the University in the same way as Schraer as teacher, researcher and administrator, but clearly focusing on her role as teacher/adviser/mentor. As one nominator stated, "She empowers her students and colleagues to the point where one feels as if a large share of the success is really yours." And another, "... the quiet background adviser and professional

director, always urging others to step forward ... to serve, learn and produce at ever-increasing levels of scholarship and academic performance. Standards were always higher than could be imagined."

It is because of her role as mentor and adviser to students and faculty that the commission will present this award to her on March 17 during its annual banquet.

Mont Alto staff assistant rewarded for service excellence

Kathy Mertz, staff assistant to the campus executive officer, Penn State Mont Alto campus, has been awarded the third annual John F. Benchoff Award for Excellence in Service.

Mertz, a Mont Alto campus staff member for more than 20 years, has served in her current position since 1987. Throughout her tenure, Mertz has worked in the offices of business, finance, student affairs and continuing education.

The Benchoff award was created in memory of the late

John F. Benchoff, who served for 23 years as a staff member at Mont Alto campus. He died in 1993. When he retired in 1991, Benchoff was the assistant director of student programs and services. He also served as the campus basketball coach for 22 years.

This memorial award was created by an anonymous donor to be presented each year to an individual who exhibits outstanding performance in a non-faculty role. All staff, advisory board members and students are eligible for this award.

Research

Rural men tend to outlive their urban and suburban peers

By PAUL A. BLAUM
Public Information

People who are wealthy and wise are generally expected to be more healthy, but rural men may hold an extra card that promises longevity: strong ties to friends, neighbors and family. When men with similar characteristics are compared, rural men live longer than either urban or suburban men.

"The greater longevity of rural men may seem at first a paradox," Mark D. Hayward, professor of sociology, said. "Rural residents have historically had restricted access to a broad spectrum of health care services due to the rural dweller's lower income, lack of private health insurance, greater traveling distances, lack of public transportation and shortage of health care providers and specialists."

Hayward did the research along with Diane K. McLaughlin, deputy director of the Population Research Institute and assistant professor of rural sociology, and Amy Pienta, postdoctoral fellow at the Population Research Institute.

While new technological and medical advances promote health, the prosperous and well-educated are more likely to take advantage of them. Because of this, longevity for urban and suburban men is directly related to the amount of education and economic resources people acquire in their early and middle years.

"Our research has shown, however, that this is largely not true for rural men," McLaughlin said. "Advanced technology and modes



Mark D. Hayward, Amy Pienta and Diane K. McLaughlin have found that men living in rural areas tend to live longer than those who reside in cities and suburbs, regardless of their education and economic resources.

Photo: Greg Grieco

of care may not be readily available in rural areas that have small hospitals and few specialists. Those with high and low education and income in rural areas use the same local physicians and hospitals."

"Even when differences in lifestyle risk factors such as drinking and smoking are controlled, rural men outlive their urban counterparts," Hayward said.

The study could not specifically

identify why rural men live longer. However, McLaughlin said, "Those in rural communities may benefit from social networks made up of strong ties: long-time friends, neighbors and siblings. Those are the people who would be most likely to provide consistent and long-term social support and assistance."

The study was based on the National Longitudinal Study of Older Men from 1966 to 1990.

All areas cannot be treated identically. Natural and human resources must be considered when deciding where the federal government can improve the situation and where it cannot.

The researcher suggests that any development policy must consider a region's resources. She warns that programs on a national level probably will not be sensitive to local particularities.

Once the myth of regional development without an infusion of federal money, expertise and preferentiality is laid to rest, developing areas can learn much from the commercialization of the rural South and from the mistakes that were made.

New protein proves effective in battle against Kaposi's sarcoma

Laboratory tests recently revealed that a new, genetically-engineered toxic protein is effective against Kaposi's sarcoma, the most common malignant complication of the AIDS virus, according to a report in February's *Clinical Cancer Research*.

"It's amazing, but it's true," said Dr. Waldemar Debinski, director of tumor research in the Department of Surgery in the Division of Neurosurgery at The Hershey Medical Center.

Lab tests showed that all five Kaposi's sarcoma cell lines were highly and specifically sensitive to the toxic protein. In-vitro tests indicated very low concentrations of the toxic protein were required to kill the cancer cells. Tests on mice also showed pronounced anti-tumor activity.

Debinski generated the new protein in his lab, and in 1995 found it to be effective against brain cancer, one of the deadliest forms of cancer. The Food and Drug Administration, The National Cancer Institute and Penn State are in the process of patenting the new compound, called IL 13-PE38QRQ.

The substance is a combination of two proteins: interleukin 13, a naturally-occurring human protein which promotes the growth of white blood cells, and a genetically engineered bacterial toxin, *Pseudomonas exotoxin A*.

Certain cancer cells — like brain cancer, Kaposi's sarcoma and renal cancers — have thousands of receptor sites that act as open doors to interleukin 13. The compound gains access to the cancer cell through the "doorway" of interleukin 13 and then attacks the cancer with the toxin.

The finding builds upon scientific developments from the past 15 years of research, a time during which the field of targeted therapy has evolved rapidly.

In addition to Hershey, several labs were involved in the current discovery of the new compound's effectiveness against Kaposi's sarcoma. The Food and Drug Administration's Laboratory of Molecular Tumor Biology, Division of Cellular and Gene Therapies, Center for Biologics Evaluation and Research; University of Southern California's School of Medicine; and the Laboratory of Molecular Biology, Division of Basic Sciences at the National Cancer Institute of the National Institutes of Health.

Research shows that Dixie may not rise again

Countries like Mexico that look at the amazing rise of commerce and industrialization in the rural American South for guidance may benefit from looking at the realities rather than the rhetoric, according to a geographer.

"The so-called free market approach of the South has been recommended as a development model for other regions and countries," said Amy K. Glasmeier, professor of geography and the John D. Whisman Appalachian Regional Scholar.

"However, government policies in the South — particularly infrastructure investments and trade protection — played a key role in the South's transformation."

This transformation began after World War I and reached its peak in the late 1970s. The conversion from rural farm to rural industrialized society was not without its consequences and was certainly not achieved in a laissez-faire, free-market climate.

The South embraced certain aspects of the New Deal programs of the 1930s, particularly infrastructure, but explicitly rejected the social aims.

In the course of industrializing the economy, the social structure remained backward.

Using the example of the South, it seems clear that strong, stable, national macroeconomic policies are necessary for successful regional policies, said Glasmeier.

Annual event to take daughters to work slated for April 24

Penn State will once again participate in "Take Our Daughters to Work Day" on Thursday, April 24. The day is a national event sponsored by the Ms. Foundation on which parents or mentors bring their daughters to work to give them a firsthand look at what occurs in the workplace and expose them to the range of life options open to them.

As part of Penn State's participation, the Commission for Women is sponsoring a morning program at University Park which will

allow girls in grades six through 12 to experience not only the workplace of the parent or mentor, but also some exciting "career sites" at University Park. Fifty sites are participating this year by opening their facilities and resources to the girls and their mentors. The girls will have the opportunity to visit three different career sites for 45-minute sessions. Career sites range across many disciplines, and the Commission for Women program will place a special emphasis on science and technology, since women are underrepresented in those fields.

The Commission for Women's program will begin with registration and a brief welcome at Kern Auditorium. The girls and their mentors will then visit three career sites, which will be assigned on a first-come-first-served basis. The program will end with a box lunch in the South Annex of The Bryce Jordan Center, sponsored by the Office of the President. This lunch will be open to participants in the Commission for Women's program, as well as the community. **Rene Portland**, head coach of the Lady Lion Basketball team will be the featured speaker. The program will end after lunch and the girls will spend the afternoon with their mentors at their workplace.

Brochures will be mailed in mid-March to all University Park employees explaining the program and providing a registration form. Cost for the program is \$10 per girl (there is no cost for the mentor). Deadline for registration is April 1. Questions can be directed to the Commission for Women office at (814) 865-1683 or to **Debbie Meder**, chair of the commission's Outreach Committee, at (814) 865-1821 or e-mail dmm4@psu.edu.

The Take Our Daughters to Work Day was launched in 1993 in response to disturbing research findings on the adolescent development of girls. Studies by Harvard University researchers, the AAUW and the Minnesota Women's Fund indicate that during adolescence girls often receive less attention than boys in school and in youth-serving programs, suffer from lower expectations than do their male counterparts, and tend to like or dislike themselves based on aspects of their physical appearance.

The commission encourages all parents to bring their daughters to work on April 24, even if they are not participating in the commission's program. Several campuses are also planning programs for the day.



Test time

Bryan Speck, an undergraduate majoring in psychology, gears up for mid-semester exams on the lawn of Old Main on the University Park campus. With exams past, Speck and thousands of other University students across the state will enjoy a brief rest — spring break is March 10 through 16.

Photo: Greg Gnecco

Appointment

CEO named dean for Berks-Lehigh Valley College

Frederick H. Gaige has been appointed dean of Penn State Berks-Lehigh Valley College. In this position he will oversee all aspects of administration, including academic affairs, student affairs, finances, fund raising and alumni activities for the Berks and Lehigh Valley campuses.

Gaige joined the Berks campus as campus executive officer in 1984. Since then, the campus has grown significantly in both size and programs. Under his leadership, the campus acquired an additional 110 acres of land for the development of an agricultural program. In addition, student housing, an expanded student center, bookstore, athletic facilities and a new academic building have been added.

Before coming to Penn State, Gaige was dean of the College of Arts and Sciences, Fairleigh Dickinson University in Madison, N.J. Gaige also was involved in the study

of nation building in Nepal.

He earned a master's degree at Brown University and spent two years at the University of Bombay as a tutor in history, before returning to the United States to earn his doctorate in South Asian studies at the University of Pennsylvania.

He was awarded a Fulbright Fellowship to conduct research in Nepal. As a result, the University of California Press published his book *Regionalism and National Unity in Nepal*. He was asked by the U.S. Embassy to visit Nepal again after a 1989 revolution to predict the outcome of the first national election in May 1991.

Gaige has been actively involved in many civic and community organizations, including serving on the boards of the Reading Hospital and Medical Center, the Hispanic Center and the Police Athletic League, to name a few.



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Out in the cold

Lonny Shawver from the Office of Physical Plant, works in the chilly March winds to install a railing around the timing stand on the track just south of Beaver Stadium on the University Park campus.

Photo: Greg Grieco

Conference Center and Inn going through transformation

By ANNEMARIE MOUNTZ
Public Information

May 6 marks a new beginning for Penn State in the area of hospitality. That's the day The Nittany Lion Inn and the Penn State Conference Center Hotel (currently The Penn State Scanticon) join forces under Penn State Hospitality Services.

The combination of the two facilities will create the largest self-operating hospitality conference organization in higher education.

The change, announced in May 1996, is being

made to streamline the University's overall hospitality organization.

"When President Graham Spanier arrived at Penn State, he saw an outside contractor and University employees each operating a hospitality organization independently from one another. We had The Nittany Lion Inn operating and doing certain things and we had The Penn State Scanticon doing things consistent with the University's mission and what they've been asked to do—but basically doing the same thing. So it was clearly legitimate for him to ask, 'What options are there for change, for im-

See "Changes" on page 9

Two engineering departments to merge by 1998

Plans are being developed for two engineering departments—mechanical and nuclear—to merge, effective for the fall semester 1998. The new administrative unit will be the Department of Mechanical and Nuclear Engineering.

This administrative consolidation is a result of the College of Engineering's five-year strategic planning process and an analysis of enrollment trends based on a decline in nuclear engineering enrollments.

"A principle foundation of this merger is to maintain and continue the significant contributions the College of Engineering has had to the nuclear engineering profession and discipline," David N. Wornley, dean of the college, said. "It is planned to continue the accreditation with the Accreditation Board for Engineering and Technology for undergraduate

See "Engineering" on page 8

University begins process to guide development

University administrators, faculty, staff and students joined members of the State College community and a planning consultant earlier this month to begin the long process of updating the University Park Campus Master Plan.

More than 100 people were present at The Penn State Scanticon on March 5 for the kick-off meeting of a process that will see a framework for campus development completed by Aug. 29, 1998. The plan will focus on land inside of U.S. Route 322 to Cori Street, including West Campus.

"The continuing evolution of this campus obviously is of importance both to Penn State's academic community and to the local community," said President Graham B. Spanier. "The planning process will bring a variety of internal and external viewpoints together to identify needs and opportunities for our future."

Emphasizing long-term opportunities, wide campus and community involvement and the importance that image and the quality of the physical environment has on attracting students, faculty

See "Master plan" on page 4

Inside



Coming April 3

Look for the special pull-out "Awards" section coming in the April 3 edition of *Intercom*. The annual eight-page insert highlights faculty and staff members honored for their various contributions to the University.



There's life in those swamps

Every year, Pennsylvania loses hundreds of acres of wetlands. Turn to page 19 to find out what one Penn State researcher is doing to preserve these marshy ecosystems.

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GLAD you asked

Welcome to "Glad You Asked," a column where employees can get answers right from the source.

Q Recently I submitted a request for a job upgrade. I filled out the necessary forms, the request was approved by my immediate supervisor and then by the head of my college. The request was then sent to Human Resources, where a gentleman who doesn't have a clue as to who I am or what my job is like, determined that I did not qualify for an upgrade. Why is this obviously archaic system used? Who knows better than my supervisor whether or not I deserve an upgrade? Why are these demeaning forms necessary?

— Curious at
University Park

A Job evaluation is a system used to establish the value of work in an organization. This in turn is tied to a pay system. That pay system is based to a degree on the marketplace for a particular set of skills and what an employer is capable of paying to maintain a motivated and competent workforce.

Job evaluation systems are not performance systems. This is a common misconception. How well an employee performs his or her duties does not determine the grade of a job. However, employees may from time to time have substantial changes in their jobs that require an examination to determine if their job is properly evaluated. Since job grade changes are based on the duties performed, the University must have a way to describe and measure the amount of change to make a grade determination. The way this is accomplished at Penn State is through the completion of a Position Information Questionnaire (PIQ). Without the PIQ, the employment/compensation specialist cannot make an evaluation and a determination of which job specification (SPEC) best fits the level of the job responsibilities performed. It is important to note that all exempt and nonexempt staff employees use the same PIQ to describe their job responsibilities.

Following the submission of the PIQ, the evaluation phase begins, which focuses on the job duties, scope and level of responsibilities, and several other factors in order to reach a decision. The employment/compensation specialist compares the employee's responsibilities to others across the University who report that they do similar or closely related work. Those employees also have PIQs on file with our office. We use these as reference points to ensure that we are using the same yardstick to measure the level of a job.

— Milton R. Trask
Manager
Employment & Compensation Division

To submit a question for this column, please send e-mail to the address listed below. Submissions must include a contact name and telephone number so that Intercom can verify the source. Requests for anonymity will be honored.

ask@psu.edu •

■ Outreach



Getting ready to surf

Tarajis Sanduskey, a general engineering major, helps with Internet wiring at Radio Park Elementary School. Sanduskey is just one volunteer in the project to connect the State College school to the Internet. It's all part of a statewide effort to wire 200 schools across Pennsylvania.

Photo: Greg Grieco

Volunteer effort opens door to Internet

An all-female team of University faculty, staff and students has installed high-speed network wiring to modernize the computer facilities at Radio Park Elementary School in State College.

The team is part of a statewide, volunteer effort known as the BuildPEN Partnership that expects to improve the wiring in 200 schools across Pennsylvania so that they can connect to the Internet by the end of this week. PEN stands for the Pennsylvania Education Network and is the centerpiece of Gov. Tom Ridge's Link-to-Learn education technology initiative. Link-to-Learn complements the BuildPEN

Partnership by providing \$121 million over three years to supply schools with computer equipment, planning expertise and other resources.

Kyle Peck, associate professor of instructional systems in the College of Education, heads Penn State's participation. **Allison Carr**, assistant professor of instructional systems, College of Education, is the lead volunteer. **Marilyn Scott**, an architectural engineering major from Tunkhannock, is coordinating participation from the University's Women in Engineering Program.

"March has been designated 'BuildPEN Month' and during that month, many schools across the state will benefit from the

efforts of volunteer groups and the gifts of corporate partners," Scott said. "In general, corporations provide the materials and the local communities provide the 'person power.'"

Tom Mincemoyer, State College Area School District technology coordinator, is technical adviser to the volunteers. He is coordinating their efforts so that the wiring projects dovetail with the school district's new technology plan. Although Radio Park is the first school to be wired, three more schools in State College also will benefit from the effort.

Besides Carr and Scott, a large number of faculty members, students and staff are also participating.

Faculty Senate news

The University Faculty Senate will meet on Tuesday, March 25, at 1:30 p.m. in Room 112 of the Kern Graduate Building on the University Park campus. Some items to be addressed include:

■ Faculty teaching development and evaluation (forensics);
■ Delegation of authority for the law curriculum to The Dickinson School of Law of the Pennsylvania State University;

■ Committees and rules nominating for 1997-98 including: faculty rights and responsibilities, Standing Joint Committee on Tenure and University Promotion and Tenure Review Committee (informational);

■ Roster of Senators for 1997-98 (informational);

■ Voluntary phased-retirement program (informational);

Members of the University community may attend. Anyone who is not a member of the Senate may ask to speak on any item of business already before the Senate. Such a request must be made to the chair, through the executive secretary of the Senate, at least four calendar days before the meeting.

A MESSAGE FROM THE PRESIDENT

University is benefit to entire Commonwealth

By GRAHAM B. SPANIER

I recently had the opportunity to testify before Pennsylvania's



GRAHAM B. SPANIER

House and Senate appropriations committees about Penn State's budget. Many of the questions asked by our elected officials during those hearings centered on how Penn State uses the tax funds it receives. As the Commonwealth's largest publicly supported university, I think it is important that the university be accountable and that Penn State is doing to serve students and taxpayers.

When legislators and citizens ask us what we are doing for Pennsylvania, we believe the answer is "a lot." As a taxpayer, you should feel particularly confident that the state's investment in Penn State is returning substantial dividends and that the University has been, and will continue to be, a careful steward of the funds entrusted to us. As Penn State employees, you should be proud of the continued contribution the University makes in all corners of the state.

Our first priority is our students. As you know, we currently educate more than 77,000 students, and are committed to ensuring that they receive the highest quality education possible. We accomplish this within the context of a budget that might surprise most people.

While many readers are aware that Pennsylvania ranks 47th out of the 50 states in per capita spending on public higher education, some might be surprised to know that Penn State receives less per student than any other public university in the Commonwealth. And we receive less support per student than any of our Big Ten counterparts. These are facts we have had to contend with for years. Yet we haven't let this impede our progress. In fact, the citizens of the Commonwealth should be proud that we have been able to develop and sustain one of the nation's leading universities

while less than 17 percent of Penn State's total budget comes from the state treasury.

As you have read before in *Intercom*, a 1996 survey in *U.S. News and World Report* named Penn State a "best value" institution — the only Pennsylvania college or university among the top "best values" nationwide. *U.S. News* also ranked Penn State among the top 10 most efficient universities in the nation — institutions that "get the most out of their educational expenditures."

The guidebook *by League Pro-*

"Penn State receives less per student than any other public university in the Commonwealth. And we receive less support per student than any of our Big Ten counterparts ... Yet we haven't let this impede our progress."

grams at State School Prices named Penn State one of six public universities nationally — and the only one in the Northeast — that has the very best undergraduate honors programs at a cost most Americans can afford. *Money Guide*, from the editors of *Money* magazine, surveyed the undergraduate honors programs at public universities and included us among a group recognized as "the best in the nation."

Just this month, Kiplinger's rated Penn State a four-star value. Of the 51 state universities reviewed, Penn State was tied with the University of Virginia for highest SAT score average, while having the highest undergraduate enrollment of all the universities listed, a clear reflection of Penn State's commitment to quality plus access.

A Penn State education is something that is in great demand. This past year, for the second year in a

row, more high school seniors — 53,238 — sent their SAT scores to Penn State than to any other university in America. We believe this is a clear reflection of the quality education which we provide at 23 locations around the state. That quality is enriched by a faculty that once again ranks first in the nation in the number of Fulbright Scholars.

Penn State's research mission is also bringing great benefit to the citizens of the Commonwealth. From the development of the artificial heart to the creation of new materials for industry, to cures for crop disease, Penn State research touches the lives of virtually everyone in the state. Penn State currently ranks 10th in the nation in total research and second in the nation (behind MIT) in industry-sponsored research. These research efforts, funded mostly with dollars brought into Pennsylvania from outside the state, are having a dynamic impact on business, industry and citizens.

Penn State's Research and Technology Transfer Organization has contributed to the creation of more than 5,000 new jobs and the retention of more than 3,500 existing jobs. We have increased the competitiveness of thousands of Pennsylvania businesses and helped to create more than 400 new companies.

Our Cooperative Extension programs serve one in six Pennsylvania households annually, and our Continuing and Distance Education programs serve more than 150,000 people per year. The recent creation of the Penn State Geisinger Health System will, in addition to creating a secure funding base for our College of Medicine, enable us to provide state-of-the-art medical care to residents of 40 counties.

We believe the facts show that the Commonwealth's investment in Penn State is a good one and we seek the continued support of the governor, the Legislature and the people of Pennsylvania, to ensure access to a Penn State degree for those who desire it. We believe that we are setting a new standard for the integration of teaching, research and service, and through our efforts in these important areas, helping to build a better future for the Commonwealth and all who live here.

Call for proposals

Schreyer Institute looking to reward new ideas in education

The Schreyer Institute for Innovation in Learning is looking for faculty with new ideas in active and collaborative undergraduate learning. Proposals for innovations to run in the spring 1998 semester are due April 11. The institute hopes to fund at least 20 projects.

Nearly 100 institute Fellows have experienced with collaborative learning using high-performance learning teams, or active learning using realistic problems or cases, in the institute's first two years. They report improvements in student motivation, attendance and intellectual performance.

Selected proposals are supported with funding for student interns to work with the faculty in designing and coordinating new learning experiences. In addition, faculty members can use instructional design and assessment consultants and team-training resources provided by the institute. Project faculty also participate in bi-weekly workshops and conversations that use PictureTel to reach University locations across the Commonwealth.

For application forms and more information, call (814) 865-8681, e-mail INOV@psu.edu or apply directly through the World Wide Web at <http://www.inov8.engr.psu.edu>.

Candidates sought for leadership and service awards

The AT&T Center for Service Leadership is accepting nominations for its 1996-1997 Service Leadership Awards.

■ The Partisan Award recognizes a group member in a non-leadership role who has made a valuable contribution to the organization, the Penn State community and Centre County region.

■ The Eclipse Award recognizes a leader who has served as an officer and/or committee chair demonstrating responsibility for the organization and displaying strong leadership skills.

■ The Rose Colonge Keystone Citizen Award & Laurel Award for Outstanding Services recognize students who have made valuable contributions in the area of service and volunteerism to the Penn State community and Centre County region. The Rose Colonge Keystone Citizen Award recognizes a volunteer who has demonstrated exceptional services and ongoing involvement, particularly in efforts involving social issues. The Laurel Award for Outstanding Service recognizes outstanding "one-time" and ongoing service to the community.

Nomination packets are at the HUB Information Desk on the University Park campus and 101C HUB. Nominations are due noon, March 21, in 101C HUB. For more information call (814) 863-4624.

Master plan

continued from page 1

and visitors, **Richard Rigerink**, a partner at Johnson Johnson & Roy Inc. and senior planning consultant for the master plan, laid out a blueprint for action over the next 18 months. Developing the plan will involve public meetings, focus groups, one-on-one consultations and just plain old walking around and talking to people.

"Don't be surprised to see us in the dining halls, or flagging people down on the mall to find out how they feel about the physical environment of campus," said Rigerink. "We also want to work closely with the neighborhoods and the community and have **Robert Bini**, director of the Centre Region Planning Agency, on the Master Plan Advisory Committee coordinate that input."

The master plan will not affect current building projects such as the Pattee Library and the HUB/Paul Robeson Cultural Center project

While the student population at University Park is not expected to grow significantly over the next 10 to 20 years, growth is likely to occur to accommodate advances in technology and the increasing use of technology in both teaching and research. Facilities will need to be updated and as the University continues its strength in sponsored research, new research facilities may be necessary.

In addition, Penn State is increasingly becoming a point of

destination, a cultural center drawing a range of visitors from prospective faculty, staff and students, to visiting researchers, donors and returning alumni. The master plan will help ensure the University continues in this role.

Among the goals of the plan are to increase campus order, strengthen the campus image, define future opportunities and clarify long-term use patterns for areas which may not currently be used to their potential.

"We will look 10 or more years into the future to explore the issues and alternatives which can ensure future flexibility that will achieve a well-organized, distinctive and aesthetically appropriate environment, and allow us to more fully understand our capacity to support development," **Gary C. Schultz**, senior vice president for finance and business/treasurer, said.

While the project will take 18 months to complete, all meetings will be scheduled as soon as possible. The group that met March 5 will meet twice more.

"The next meeting will be to give you an update and outline the directions the process is taking," Schultz said. "The last one will be a pre-final report presentation of the plan."

The plan will not affect current building projects such as the Pattee addition at Pattee Library and the Hetzel Union Building/Paul Robeson Cultural Center project, which will continue as scheduled.

The configuration of campus buildings, walkways, open spaces and utility systems have been guided by a master plan first developed in 1922 and periodically updated. Its last major update occurred in 1987.

Internal search for department head in education is under way

The College of Education is conducting an internal search for head of the Department of Counselor Education, Counseling Psychology and Rehabilitation Services. Major responsibilities include: providing leadership for the programs; research and professional service activities of the department; organizing and recommending faculty assignments; evaluating and making recommendations concerning promotion, tenure and salary; maintaining a positive climate of professional productivity and cooperation among fac-

ulty; mentoring tenure-track junior faculty; managing the department operating budget; serving as chief administrative officer of the department; and pursuing relevant scholarship, research and teaching.

Qualifications include: appointment as a tenured professor in one of the programs within the department; ability to work effectively with students, faculty, staff and other administrative personnel in the college and University, as well as with state and national agencies; knowledge and experience in perform-

ing administrative responsibilities; experience in managing budgets; record of excellent teaching, scholarship and research including experience with funded projects; experience with student advising and program development; excellent interpersonal skills; understanding of and commitment to school and educational reform; ability to maintain a supportive and nurturing climate for faculty, staff and students; commitment to maintaining excellence in all department activities; demonstrated experience and commit-

ment to working with diverse populations; and commitment to collaboration and collegiality.

The appointment will be effective July 1, or as soon after as possible.

Submit applications and nominations to **Robert B. Slaney**, chair, 327 Cedar Building, University Park, Pa. 16802. Applicants should submit a letter of interest, a current curriculum vitae and the names, mailing and e-mail addresses, and telephone and fax numbers of three professional references. Application deadline is April 19.



Career Day

The seventh annual Pennsylvania Career Day will be held from 10 a.m. to 4 p.m. Thursday, April 10, in The Bryce Jordan Center on the University Park campus. Students and alumni of Pennsylvania colleges and universities will have the opportunity to meet with representatives from more than 140 Pennsylvania organizations. Organization representatives will be accepting resumes for current and projected openings; conducting on-site interviews for full-time and part-time positions, internships and summer employment; and offering information about employment opportunities within specific career fields. Admission and parking at the Jordan Center are free and no preregistration is necessary. Participating students also can take advantage of the free shuttle bus which will pick up and drop off at the HUB and the Jordan Center every 15 minutes throughout the day. For more information, call the Career Development and Placement Services office at (814) 237-7.

CEO for Shenango campus sought

The University is seeking candidates and nominations for the position of campus executive officer (CEO) for the Shenango campus, which on July 1 will become part of the 12-campus Commonwealth College. The CEO is the chief administrative officer of the campus and is responsible for administering all of its programs. The CEO also is responsible for maintaining close relationships with the campus communities, including outreach programs.

Situated on 14 acres in downtown Sharon, the Shenango campus serves its neighboring communities with a wide variety of educational programs and services. The campus enrolls approximately 1,000 students, all of whom commute. The campus offers seven associate degrees; select baccalaureate opportunities; the first two years of almost all of Penn State's 180 baccalaureate majors; and credit and non-credit certificate programs. Several of the degree offerings have an allied-health focus with curricula in physical therapy assistance, occupational therapy assistance and four-year nursing.

Candidates should have an earned doctorate, several years of experience in college and/or

university teaching and substantial experience in academic administration. Send resume to: **John Leathers**, associate vice president, Commonwealth Educational System, 111 Old Main Building, Department CHSV, University Park, Pa. 16802. Application deadline is April 4, or until a suitable candidate is selected. Penn State is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.

The committee charged with the search includes: **John Houlihan**, chair and professor of physics, Shenango campus; **Pearl Cohen**, assistant professor, health and human development, Shenango campus; **Catherine Cannon**, campus executive officer, Penn State New Kensington campus; **Richard Lenzi**, director of business services, Shenango campus; **Julie Papadimas**, English instructor, Shenango campus; **Thadd Preisner**, assistant professor of biology, Shenango campus; **Diana Rankin**, student government president, Shenango campus; **Rachel Smith**, budget planning officer, CES, University Park; and **James Stewart**, vice provost for educational equity, University Park.

News in Brief

Maple sugaring techniques demonstrated

Shaver's Creek Environmental Center will host a Winter Harvest Festival from 11 a.m. to 4 p.m. Saturday, March 22, and Sunday, March 23, at the Stone Valley Recreation Center. The Shaver's Creek staff will demonstrate the techniques of old-time maple sugaring. Visitors will have an opportunity to sample the maple syrup on freshly made pancakes. The cost is \$7 for adults; \$4 for Shaver's Creek members. The cost for children between the ages of 4 and 12 years old is \$5; \$4 for members. There is no charge for children under 4. For more information, call Shaver's Creek at (814) 863-2000.

Weight Watchers AT WORK

The Weight Watchers AT WORK program is now available at two locations on the University Park campus. Section 2 will meet Wednesday, March 26-June 4, from noon until 1 p.m. in the Paul Robert Cultural Center auditorium, and Section 3 will meet Tuesdays, March 25 until June 3 in 101 Electrical Engineering East Building. Cost: \$115 (lifetime members, \$105). Members of the HealthAmerica HMO may be reimbursed. To register, contact Jan Hawbaker at (814) 865-3085 or JQH3@psu.edu for a preregistration form.

Science writers discuss cloning

Terry D. Etherton, distinguished professor of animal nutrition, will lead a lunchtime roundtable discussion on the ethics of cloning, sponsored by the Penn State Chapter of the National Association of Science Writers, at noon Wednesday, March 26, in room 114 Ken Building.

Recent reports of the cloning of a sheep in England have once again brought the question of the application of biological principles and practices to humans and other animals to the forefront. Science writers need to know the questions to ask to evaluate both the scientific and ethical implications of this research.

NASW lunchtime programs are open to anyone interested in science communication. For more information, contact Andrea Messer, aem1@psu.edu or 865-9421.

Leadership series for women

"Women as Leaders: A Three-Part Series on the Power of Transformational Leadership" is a discussion on transformational leadership and how women can discover and apply their own styles. This three-part program includes:

- 1) "Perspectives, Myths and Realities," from 3-5 p.m. on March 27; 2) "Talking 8-to-5 and Beyond," from 3-5 p.m. on April 24; and "Barriers and Breakthroughs," from 3-5 p.m. on May 29.

The series will be offered in the Gallery Lounge at the Hetzel Union Building. Cost is \$80 for the complete series, or \$40 for each program. The fee includes the book *The Female Advantage: Women's Ways of Leadership* by Sally Helgesen. Preference will be given to those signing up for the entire series. For more information, call Anne Shields at (814) 865-2563.

Annual used book and record sale

From Saturday, April 5, through Wednesday, April 9, the 36th Annual Used Book and

Record Sale will be held from 9 a.m. to 9 p.m. in the Hetzel Union Building Ballroom and Fishbowl.

The event, sponsored by the American Association of University Women, State College Branch, will feature more than 90,000 books and 2,000 records, plus maps and sheet music for sale. Proceeds benefit local educational projects and fellowships and grants for university women. Last year's proceeds exceeded \$73,000.

On Tuesday, April 8, every item will be marked 50 percent off and on Wednesday, April 9, a full grocery bag of books is only \$5.

Spring luncheon

The University Women's Club members and their guests are invited to attend the Annual Spring Luncheon at the Elk's Club on Tuesday, April 15. A reception will begin at 11:30 a.m. followed by a noon luncheon. An original program will be presented by Grace Holderman. To make your reservation, please contact Susan Klein at (814) 237-3850, April 10.

It's at the Nat

The McCoy Natatorium offers several swimming and diving classes for all age groups, including:

■ Springboard Diving

All levels of divers can participate in one of these three classes offered:

Learn to Dive — for people six years old and up; must be able to swim 25 yards non-stop;

Novice Diving — for those who have participated in a previous Learn to Dive session or have been cleared by the coach to participate;

Junior Olympic Diving — for those who have previous competitive diving experience, have been in the advanced diving class or have the permission of the coach.

■ Nittany Lion Aquatics: Age Group Swimming

A year-round program, it offers training sessions for young swimmers of all ages. Swimmers as young as six are taught the basic techniques of the four competitive strokes; older, more experienced swimmers are introduced to the latest in training philosophies.

■ Aquatics

Available at five different levels of intensity, this course is scheduled at various days and times throughout the week.

■ Masters Swim

For adults of every age, this course offers an opportunity for adults who enjoy swimming to improve their technique and overall level of fitness; it is not designed for only those who have "mastered" the sport of swimming.

For information on any of these classes, call Jon Larson at (814) 865-1432.

Stone Valley Recreation Area schedule

Spring and summer activities at the Stone Valley Recreation Area are gearing up and include everything from boating, fishing, instructional sailing programs and hayrides, to bonfires, canoeing, hiking and special programs.

For additional information on programs or rental facilities, contact Stone Valley at (814) 863-0762 or (814) 667-3792.

National Service Week set for May 19-25

Charles Bierbauer, senior Washington correspondent for Cable News Network, and Suzie McConnell-Serio, former two-time Olympic medalist in basketball, have been named national honorary co-chairs of the Penn State Alumni Association National Service Week in May. They are both Penn State alumni.

The third annual National Service Week, a nationwide community service initiative, will be held May 19-25. Alumni chapters, societies, interest groups, and individuals across the country will do volunteer work to benefit local communities. Projects will include housing construction for Habitat for Humanity; volunteer work in homeless shelters; and participation in blood drives, community cleanup campaigns and philanthropic endeavors.

Last spring, 99 alumni groups in 30 states and the District of Columbia participated, which was 14 more than in 1995 when the program received the first place award for community service from the American Society of Association Executives.

Bierbauer, a native of Allentown, earned Penn State degrees in 1996 and 1997. He has been a journalist for 25 years, including being CNN's senior White House correspondent for nine years during the Reagan and Bush administrations. Penn State has honored Bierbauer as a Distinguished Alumnus and Alumni Fellow.

McConnell-Serio, basketball coach at Kodak Catholic High School in her native Pittsburgh, earned gold and bronze medals as a member of U.S. Olympic basketball teams in 1988 and 1992. A 1988 graduate, McConnell-Serio was a Kodak All-American her senior year.

McConnell-Serio was a four-time Atlantic 10 All-Conference selection. The conference player of the year in 1985, she led the Atlantic 10 in assists four consecutive seasons.

For more Alumni Association news, see <http://www.alumni.nyu.edu>.



A group of Penn State alumni work to sort canned goods at a food drive for a shelter during last year's National Service Week.

Grant funds available

Matching funds of up to \$120,000 per project are available for the development of new or improved products or processes with Pennsylvania companies through the Ben Franklin Partnership's 1997 Challenge Award Program.

Competitive proposals are evaluated on:

- technical feasibility;
- potential for near-term commercialization;
- potential to create jobs in Pennsylvania;
- company matching funds; and
- university/company partnership.

The closing date for proposals for this program is April 1. Projects selected for funding will start July 1. To find out more about the program, contact the Ben Franklin facility near University Park at (814) 863-4558; in Harrisburg at (717) 948-6339; or in Erie at (814) 898-6114.

LECTURES

Professor of astrophysics to give lecture series on planets

Peter Goldreich, the Lee A. DuBridge professor of astrophysics and planetary physics at the California Institute of Technology, will present the 1997 Russell Marker Lectures in Astronomy and Astrophysics from March 24 to 26 at the University Park campus.

The three-lecture series, titled "Thinking About Our Cosmic Environment," is sponsored by the Eberly College of Science and is open to the public.

The lectures include: "Heliocentrismology" at 8 p.m. Monday, March 24, in 111 Boucke Building; "Clues About How Planets Form" at 4 p.m. Tuesday, March 25, in 55 Osmond Laboratory; and "Turbulence on Earth and in Space" at 4 p.m. Wednesday, March 26, in 55 Osmond Laboratory.

Goldreich was one of eight scientists to receive the 1996 National Medal of Science from President Clinton. He was cited for his profound and lasting contributions to planetary sciences and astrophysics. He also has received numerous other awards, including the 1993 Gold Medal of the Royal Astronomical Society. Goldreich's work has addressed some of the most fundamental issues in planetary science.



PETER GOLDBREICH

Lecture by author on March 27 rounds out Feminist Scholars Series

The final speaker in the Women's Studies Feminist Scholars Series, **Mary Hill**, will present a lecture titled "Charlotte Perkins Gilman: A Woman's Struggle with Womanhood" at 7:30 p.m. on March 27. Currently the presidential professor of history at Bucknell University, Hill will speak in 101 Kern Building on the University Park campus.

Hill is the author of three books on Charlotte Perkins Gilman including *Making of a Radical Feminist* and *Endure: The Diaries of Charles Walter Stetson*, as well as the love letters of Gilman in *Charlotte Perkins Gilman: The Journal of a Woman*.

Most recently, Hill's research focus has shifted to her forthcoming text titled *In Search of the Virgin Queen*. In this piece, Hill explores the ways in which women writers of Native American, Black, Hispanic and Chinese-American descent use story telling to provide a level of healing for their peoples.

The recipient of two grants from the National Endowment for the Humanities, Hill received her doctoral degree from McGill University in 1975. She has been teaching at Bucknell University, primarily in women's studies, for more than 20 years.

For information on this lecture or the Feminist Scholar's Series, please contact the Women's Studies Program at (814) 863-4025.



MARY HILL

March 27 talk to focus on cure for AIDS

"AIDS: Search for a Cure," a March 27 luncheon lecture, will be given by **Kenneth A. Johnson**, Paul Berg professor of biochemistry, at noon in 110 N. Henderson, The Living Center, on the University Park campus.

By the year 2000, 40 million people will be infected with HIV, the virus that causes AIDS. There has been considerable excitement over new drugs that may afford a cure in

some individuals. However, this excitement is tempered by concerns over the ability of the virus to mutate rapidly, leading to resistant forms of the virus. Johnson will discuss his research on dealing with these issues in developing better drugs used to treat AIDS.

This free lecture is sponsored by the Penn State Chapter of Sigma Xi.

Panel to take on alcohol and tobacco advertising

With binge alcohol consumption extracting a deadly toll on college campuses and cigarette smoking the chief preventable cause of cancer in the United States, the College of Communications and the Pennsylvania Center for the First Amendment will hold a roundtable discussion to address the legal, ethical, health and marketing issues surrounding the advertising of alcohol and tobacco products.

Slated for 7:30 p.m. Wednesday, March 26, at the Kern Graduate Center in Assembly Room 112, the discussion brings together experts from The Smear College of Business Administration, University Health Services and the College of Communications.

"You've got child-friendly cartoon figures like Joe Camel pushing cigarettes and a flotilla of frogs croaking for Budweiser. Despite the potentially deadly appeal of these figures, the First Amendment protects such commercial speech," said **Cly Calvert**, assistant professor of communications and asso-

ciate director of the Pennsylvania Center for the First Amendment at the University.

Panelists include: **Marvin Goldberg**, a professor in The Smear College of Business Administration who specializes in social marketing; **Natalia Croll**, assistant director of University Health Services; **Chuck McMellon**, professor in the College of Communications who teaches advertising; and **Calvert**, who specializes in media law and policy issues.

Jeremy Cohen, associate dean of undergraduate studies in the College of Communications, will moderate the discussion and invite participation from the audience.

The Pennsylvania Center for the First Amendment, founded in 1992, conducts educational conferences for lawyers, judges, journalists, educators and the general public. In addition, the center is a resource for the media and the public, and has provided expert testimony to courts and legislatures.

Gay activist to give talk at University Park on March 24

Tony Kushner, award-winning author of "Angels in America" and prominent gay activist, will speak in Eisenhower Auditorium at 8 p.m. Monday, March 24.

Known for his Pulitzer Prize- and Tony Award-winning play, "Angels in America," Kushner's famous work consists of two plays: "Millennium Approaches" and "Perestroika." A seven-hour long play dealing with AIDS and the crisis of conscience the epidemic poses to America, "Angels" has won almost every major theatrical award since opening in Los Angeles in 1992. An upcoming major motion picture based on the play will be directed by Robert Altman.

Integrating historical figures such as Ray Cohn with a potpourri of characters both gay and straight, "Angels"

has played to rave reviews in New York City's Walter Kerr Theatre since 1993. In 1994, the play began its national tour.

Kushner has received numerous playwrighting fellowships and awards and taught at New York University, Yale, the University of Iowa, Princeton and the Juilliard School of Drama. He has a bachelor's degree from Columbia University and a master's in fine arts degree from New York University.

Fifth in the Distinguished Speakers Series, Kushner's presentation is co-sponsored by the Lesbian Gay Bisexual Student Association. Tickets are free and will be available in 225 HUB. For more information, contact **Carol German** in the Office of Student Activities at (814) 863-3786.

Nigerian scholar will address feminism and African gender formation

Nigerian scholar **Oyewumke Oyewumi** will discuss "Feminism and African Gender Formation" from 3:30 to 5 p.m. Wednesday, March 26, in the Paul Robeson Cultural Center on the University Park campus.

Oyewumi, who has written such books as *The Complexity of Sisterhood* and *The Complexity of Sisterhood*, is currently a fellow at the UCLA Rockefeller Humanities Institute for the Study of Gender in Africa. Oyewumi also is the author of *The Invention of Women: Making an African Sense of Western Discourse*

on a book in which she interrogates Western feminist theories, while examining the relationship between motherhood, social identities and female agency in an African context.

Oyewumi, who has received numerous honors over the years including being named to several fellowship positions within the University of California system, earned her master's degree and Ph.D. in sociology both from the University of California at Berkeley.

More Lectures

Author and scholar to dispute "Bell Curve"



MICHAEL HOUT

Michael Hout, professor of sociology and director of the Survey Research Center at the University of California - Berkeley, will deliver the 1996 Francis Sim Memorial Lecture at 8 tonight in 101 Thomas Building on the University Park campus. Hout, internationally renowned expert in the field of stratification research, will discuss "Inequality by Design: Myths, Data and Politics." Author (with five Berkeley colleagues) of *Inequality By Design: Cracking the Bell Curve Myth* (Princeton University Press, 1996), Hout challenges the claims of the bestseller by Richard Herrnstein and Charles Murray, *The Bell Curve*, through a re-analysis of the very data used by Herrnstein and Murray to support their assertion that inherited differences in intelligence explain inequality.

Hout's talk will draw upon some of the recent work on the sources of inequality in the United States and assess the arguments of *The Bell Curve*. The lecture is open to the public.

March 25 panel discussion to look at industrial side of science and technology

Executives from DuPont and deans from four Penn State colleges will participate in a panel discussion titled "Science and Technology: An Industrial Perspective" on Tuesday, March 25, from 3 to 4:30 p.m. in 101 Thomas Building on the University Park campus.

The discussion will focus on the role of fundamental research in producing discoveries that could create new businesses. Panel members will talk about the need for cooperative arrangements between research universities and technology-based companies that could speed the route from scientific discovery to technology development of science-based products.

Participants from DuPont include **Joseph Miller**, senior vice president for research and development and chief technology officer, and **Kurt Landgraf**, chief

financial officer. Participants from Penn State include **Theodore Alter**, interim dean of the College of Agricultural Sciences; **Peter Luckie**, associate dean for research in the College of Earth and Mineral Sciences; and **David Wormley**, dean of the College of Engineering. **Gregory Geoffroy**, dean of the Penn State Eberly College of Science, will facilitate the panel discussion.

Miller has been with DuPont throughout his career in a variety of positions involving research and development, manufacturing, business and marketing. Landgraf was president and chief operating officer of the DuPont Merck Pharmaceutical Co. before his recent appointment as DuPont's chief financial officer.

For more information, contact **Theresa Peters** at (814) 865-6553.

Writer to broach subject of "the classics"

Acclaimed film critic for *New York* magazine and contributing editor for *The New Yorker*, **David Denby**, will lecture at the Hazleton campus on Tuesday, March 25. The program will be held in room G-115 of the Evelyn Graham Academic Building and will begin at 7:30 p.m.

Denby will discuss *Great Books: My Adventures with Homer, Rousseau, Woolf and Other Indestructible Writers of the Western World*, his recent book that rediscovers the masterpieces of the Western literary tradition. In his book he relates his struggles to

break out of the media bubble and read seriously.

Denby was film critic at *The Atlantic* and *The Boston Phoenix* before joining *New York* magazine in 1978. His articles and essays on movies, literature and music also have appeared in *The New Yorker*, *The New Republic* and *The New York Review of Books*.

While at Penn State Hazleton, he also will visit with English students at the campus. His appearance is part of the Penn State Hazleton Lecture Series.

Harvard professor to deliver Harrisburg talk

Harvard University Professor **Herman Chernoff** will deliver this year's Distinguished Statisticians Lecture at Penn State Harrisburg, Capital College.

Chernoff, professor of statistics, will discuss the use of DNA profiling in forensic identification and paternity cases at his 1 p.m. lecture on March 27 in Penn State Harrisburg's Capital Union Building.

A member of the Harvard faculty since 1984, Chernoff, in 1987, received the Wilks

Memorial Medal from the American Statistical Association. Before his appointment at Harvard, he served as professor of applied mathematics at the Massachusetts Institute of Technology (1974-84), and as professor of statistics at Stanford University (1986-74). Chernoff's presentation is open to the public and will be preceded by a luncheon at noon. For more information, contact **Winston A. Richards** at (717) 948-6090.

Satellite seminar looks at technology strategies for rural areas

Learn about "Rural Education and the Information Highway: Making Connections, Building Communities" on Tuesday, March 25 at The Penn State Scanton. This live satellite seminar, including special appearances from **President Bill Clinton** and other prominent public officials, will begin at 2 p.m. and conclude at 4:30. Participants will learn proven technology strategies for rural schools and communities.

Panelists will teach those in attendance how to mobilize resources and propose that the key to successful technology initiatives is community-wide effort, particularly in rural schools struggling with a lack of funding and basic infrastructure.

To register, call **Barbara Neving** from Continuing and Distance Education at (814) 863-0229.

Contemporary works of Nigerian printmaker to be examined

Sharon Pruitt, associate professor of art history at East Carolina University and a specialist in African art, will present a lecture at 7:30 p.m. Tuesday, March 25, in the Palmer Lipcon Auditorium of the Palmer Museum of Art on the University Park campus.

Pruitt will examine the traditional style and themes used in contemporary artworks by **Bruce Onobrakpaya**, a Nigerian Urhobo printmaker, painter and sculptor. Belonging to the first generation of contemporary artists graduating from the Nigerian College of Arts, Science and Technology (NCASST, presently known as Ahmadu Bello University), Onobrakpaya's training was based on the Western illuistic tradition of representational art. However, many of his artworks do not reflect his training in Western aesthetics. Instead, they portray stylistic elements and compositions that mirror traditional African figural sculpture and decorative arts.

The lecture, sponsored by the Department of Art History, is free to the public. For more information, contact the museum office at (814) 865-7672.

Professor to address "Why do we eat?"

Barbara Rolls, the Helen A. Guthrie chair and professor of nutrition, professor of biobehavioral health and professor of behavioral science in the College of Health and Human Development, will give the **Pauline Schmitt Russell Distinguished Research Career Lecture** at 4 p.m. Thursday, March 27, in 5209 Henderson Building on the University Park campus. Rolls will talk about "Need or Greed: Why Do We Eat?"

Rolls, also director of the Laboratory for the Study of Human Ingestive Behavior, studies the psychological and physiological controls of food intake and food selection in normal weight and obese humans and in patients with eating disorders. Some of her recent research has involved the fat substitute olestra.

Red China is focus of March 27 panel talk

A panel discussion, "Red China in Black and White: Misrepresentations in the Media Age," will be held at 8 p.m. Thursday, March 27, in Kern Auditorium on the University Park campus.

The panelists are **Liu Kang**, associate professor of comparative literature and principal author of *Demonizing China: Knowledge Production and Aesthetic Representation of China in the U.S.*; **Shari Roberts**, assistant professor of communication; **Erwin Atwood**, senior research associate, Australia-New Zealand Studies Center; and **K. Thomas Berner**, professor of journalism and American studies and Fulbright lecturer at the China School of Journalism, Beijing.

The talk is sponsored by the College of Communications, the Department of Comparative Literature, the Asia-Pacific Task Force and Chinese Culture Club.

In praise of garlic

Can foods such as garlic aid in the fight against cancer?

John Milner of the Department of Nutrition at University Park will discuss "Natural Anti-Cancer Agents in Foods" during an April 3 presentation at the Penn State Downtown Center in Harrisburg at noon.

Milner's presentation will focus on data from several studies which provide evidence that increased consumption of garlic and its associated sulfur compounds can reduce cancer risk.

The presentation, co-sponsored by the College of Health and Human Development and the Downtown Center, is free to the public. To register, call (717) 783-0433.

Engineering

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and graduate degree programs in nuclear engineering and the education, research and service activities of the Breazeale Nuclear Reactor facility."

The basic conditions established for the planned merger are:

■ To continue the degrees currently offered in both the mechanical and nuclear engineering programs.

All students will be able to continue in their current degree program to completion, and the college will continue to recruit and admit students into the nuclear engineering programs at the bachelor's, master's and doctoral levels.

■ No staff will be discharged as a direct result of the merger and faculty tenure processes currently in place will continue.

■ The new department will maintain and enhance the operation and use of the Breazeale Reactor.

Wormley has appointed a committee to identify and prioritize issues related to the merger, and to establish a process to address these issues. The Mechanical and Nuclear Engineering Department Transition Committee consists of two faculty and two staff members, and one graduate student and one undergraduate from each department (See box). The committee is being chaired by George J. McMurtry, associate dean for administration and planning in the college.

COMMITTEE MEMBERS

The Mechanical and Nuclear Engineering Department Transition Committee includes:

— **George J. McMurtry**, associate dean for administration & planning, chair

— **Anthony Baratta**, professor of nuclear engineering

— **Robert Daum**, graduate student, nuclear engineering

— **Robert Heinsohn**, professor of mechanical engineering

— **Daniel Hughes**, senior research assistant, Breazeale Nuclear Reactor

— **Rebecca Levack**, undergraduate student, nuclear engineering

— **Thomas Litinger**, professor of mechanical engineering

— **Arthur Motta**, assistant professor of nuclear engineering

— **Kim Ripka**, administrative assistant, mechanical engineering

— **Sue Ripka**, staff assistant, mechanical engineering

— **Steven Schroeck**, undergraduate student, mechanical engineering

— **Andrew Smith**, graduate student, mechanical engineering

— **Christine Wilson**, staff assistant, nuclear engineering

NEED MORE?



Minutes of the transition committee meetings will be posted to the Web at:

http://www.engr.psu.edu/www/dept/mech_nuce_merger/

and unified department.

The committee will submit its recommended plans for the merger and the process it will undertake to accomplish the move by early this summer. Minutes of the committee meetings will be posted on the Web at

http://www.engr.psu.edu/www/dept/mech_nuce_merger/

There are strong mutual research interests between these two groups of faculty — particularly in the thermal and heat transfer areas," McMurtry said. "This administrative change will foster increased interaction and collaboration among the faculty and students in the two fields."

College leaders expect to submit a formal proposal this summer for consideration by the University Faculty Senate and the administration. It is planned that the merger will become effective July 1, 1998, subject to approval by the Board of Trustees.

Workshops for minority students planned



The College of Communications will again offer the Multicultural Film/Video Workshop from July 6-18.

For the fourth year in a row, the Penn State College of Communications will offer two workshops to high school students interested in the fields of journalism and film/video production. Each workshop offers minority high school students the opportunity to gain hands-on experience and a deeper understanding of careers in journalism, film and television with the added goal of creating future leaders in each of the industries.

The Multicultural Journalism Workshop, which will be held July 6-18, teaches students basic news writing and newspaper production. Aspiring journalists will learn basic reporting, editing and photojournalism, and gain an understanding of media law and ethics. In addition, the workshop's organizers provide tours of the College of Communications, the *Centre Daily Times*, the *Harrisburg Patriot*, the Penn State Daily Collegian, WPSU-FM and WPX-TV.

The Multicultural Film/Video Workshop, which also runs July 6-18, provides students with the opportunity to work in small groups to develop film and video projects that express their views of the world.

The application deadline for both workshops is April 15. Additional information, workshop posters and applications may be obtained by contacting **Mary Leone** at (814) 863-6081 or by writing to **Joseph Selden**, director of multicultural affairs, College of Communications, 205 Carnegie Building, University Park, Pa. 16802-5101.

Promotions

Staff

Barbara Noll, program aide at The Hershey Medical Center.

Susan K. Oram, coordinator, media sales in Continuing and Distance Education.

Barbara Pancerella, staff assistant VI at Penn State Hazleton campus.

Jeffrey J. Place, computer and electronics specialist at Penn State DuBois campus.

Dale Penelope, employment/compensation associate in Office of Human Resources.

Joseph Segilia, director of outreach at Penn State Fayette campus.

Brenda K. Smith, assistant manager, housing, Housing and Food Services.

Debra S. Stauffer, administrative assistant III in The Smell College of Business Administration.

Stanley B. Supon, senior programs coordinator in Division of Undergraduate Studies.

Michelle L. Thorwart, project associate in College of Health and Human Development.

Julia B. Yost, coordinator, community development at The Hershey Medical Center.

Technical Service

Pauline L. Geithmann, residence hall/project worker in Housing and Food Services.

Gayle E. Goodyear, storeroom/transport aide at The Hershey Medical Center.

William Hughes, campus bus driver in Business Services.

Thomas Krivak, maintenance worker-general A at Penn State Worthington Scranton campus.

Eugene J. Krout, group leader-poultry in College of Agricultural Sciences.

Jerry A. Myers, maintenance mechanic, poultry farms in College of Agricultural Sciences.

Nellie A. Palumbo, janitorial worker/caféteria attendant at Worthington Scranton campus.

Jack W. Rohrbach, stock clerk-truck driver in Housing and Food Services.

Robert D. Smith, audio/visual technician B in University Libraries.

David C. Witherite, poultry research technician in College of Agricultural Sciences.

Carolyn Zimmerman, receiving clerk at The Hershey Medical Center.

Changes

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provement?" said James W. Purdum, general manager of The Nittany Lion Inn.

To answer the question, Purdum and Tom Gibson, assistant vice president for auxiliary services, worked on a proposal for self-operation that ultimately led to the decision to terminate the management agreement with Scanticon International, a Princeton, N.J., and Denmark-based hotel and conference center management company.

The decision was one made strictly for operating efficiency, to ensure continued, long-term viability of both The Nittany Lion Inn and the Conference Center Hotel, and not because of any dissatisfaction, Purdum said.

Everything that Scanticon International was asked to do, they've done, and then some," he said. "They've done an extraordinary job in setting up the conference center hotel — opening it, operating it, establishing operational credibility, establishing quality food service, establishing so many things that are positive for Penn State. We plan to expand on what they've built."

Purdum said the main goal is to take the best that Scanticon has brought to Penn State and the best that The Nittany Lion Inn has to offer and create a combined organization that delivers product and services that are better than either one has been able to offer individually.

Customers at the Penn State Conference Center Hotel will see little difference on May 6, other than a change in signs.

"We don't intend to come in and make drastic changes. There's nothing broken as far as the day-to-day operations go," Purdum said. He said all conference and seminar bookings made by Scanticon will be honored by the University.

The new organizational structure will see Purdum as general manager for both facilities with the assistance of an associate general manager. Directors will have organizational responsibility for human resources, sales and marketing, and reception and property operation for both facilities. This will enable The Nittany Lion Inn and the Penn State Conference Center Hotel to operate more efficiently, as one hotel with two locations, according to Purdum.

"This is a proven organizational structure, not experimental. This is something that single owners of hotels in the same geographic region have used to share business," Purdum said. "It's my hope that this structure will have everyone in the organization thinking about where the customer's needs are best served."

A change for employees is that they all will now work for Penn State. Staffs will be interchangeable and will be assigned based on where they are needed most.

"The change will allow us to move staff around to put people where



For all your conference needs

Beginning May 6, employees of both The Nittany Lion Inn and the new Penn State Conference Center and Hotel (shown above) will come together to better accommodate conference attendees and to provide a better response system for customers.

ACADEMIC CONFERENCES AT SCANTICON

Since The Penn State Scanticon opened its doors in May 1994, it has served the University's academic conferencing needs well. To date, Scanticon has:

- delivered 378 academic programs.
- served 31,459 participants.
- involved more than 500 faculty as program developers, content experts and program chairs.
- worked with all colleges including the Capital College.

Source: Mike Ostroski, director of Conferences and Institutes

they're needed and hopefully achieve some efficiencies there. Banquet servers may be at The Nittany Lion Inn one day and at the Penn State Conference Center Hotel the next," Purdum said.

"The people at both locations are extraordinary. They have extraordinary pride in their jobs. What we need to do during this transition is to maintain that sense of pride and that sense of professionalism and get us all committed to the common goals of serving both our guests and our educational mission," Purdum said.

"There will be a gradual influx of more students at the Conference Center Hotel because our mission is directly associated with helping to educate and provide educational work experience for students through our intern program. Scanticon already has been involved in the program," Purdum said.

Patricia Book, associate vice president and associate dean for Continuing and Distance Education, said the changes also should benefit her unit.

"The combined property eliminates any inherent competition and permits everybody to focus on the services and the space most appropriate to the facility, the needs of the academic conference, professional association or corporate training program," Book said. "Continuing and Distance Education is continuously attracting larger pro-

grams and increasing the average size of our programs. When we're working with 1,500 people and need facilities at both places, it's critical that we have a seamless University response."

Book said the consolidation of the two properties under one management system will make it easier for conference planners and attendees alike.

"They will be able to seamlessly reserve overnight accommodations or meeting space without having to deal with separate properties as we have in the past," she said. "Integrating the information systems, guest services and room reservation systems makes it easier and quicker for us to respond to program participants. That's an immediate benefit."

Other changes coming include a central reservation system for both facilities, shared information systems, one sales and catering system and consistent pricing at the facilities' four restaurants.

These steps are all intended to meet Penn State Hospitality Services' stated mission of uniting quality hospitality and education to be the premiere hotel and conference destination in higher education.

"I'm really passionate about this change. I think it's so good for Penn State," Purdum said.

Overflow keeps others hopping

The Nittany Lion Inn, Penn State Scanticon and Bryce Jordan Center have been very good for business, according to those in the State College business community.

Bob Price, president of Downtown State College Inc., said area businesses have seen a "tremendous" impact from both the Jordan Center and Penn State conference business.

"We continue to see increases, and increases and increases in business downtown," he said. "We haven't had the time or money to do an assessment of the financial impact on downtown, but we plan to survey our members and collect that data."

Price said a joint Penn State/State College marketing committee has been formed and meets regularly to analyze just such issues.

Ainslie Mclay, director of sales at the Days Inn Penn State has worked closely with the Nittany Lion Inn and Scanticon. Both facilities rely on the Days Inn to handle overflow guests from Penn State conferences and Jordan Center events such as the Garth Brooks concert.

Although the Days Inn has a clientele all its own, Mclay notes that his sales team is collaborating with its counterparts at the Nittany Lion Inn and the Conference Center, marketing jointly at a number of hospitality sales conventions.

"We are very pleased," she said. According to Mclay, the number of rooms reserved at the Days Inn in conjunction with the Garth Brooks concert has been "phenomenal."

"It's been fantastic, really. The success of the Jordan Center has been amazing. We are certainly filling rooms that we haven't filled before," Mclay said. "We're just glad to have so many people traveling to State College."

Susan Rose, sales manager at the Hampton Inn Hotel agreed.

Hampton Inn room bookings are up and like the Days Inn, the Hampton Inn routinely handles overflow business for the Nittany Lion Inn and Conference Center.

"I'm over there all the time, meeting with the Penn State planners and events staff. We appreciate all three facilities," Rose said.

The ARTS

AT PENN STATE

Nine to participate in Performance Option

This year, organizers of the Graduate Research Exhibition have added a performance component to the competition, acknowledging that many artistic disciplines cannot present their research or achievement in a static medium. Graduate students from the College of Arts and Architecture's School of Music and School of Theatre Arts will perform works at 8 p.m. Friday, March 21, in room 122 Music Building II on the University Park campus.

"Photographs of Australia"

"Photographs of Australia" by Richard Woldendorp are on display at the HUB Browsing Gallery on the University Park campus, through April 27.

Woldendorp was named Photographer of the Year in 1982 by the Australian Institute of Professional Photographers. He uses the exhibit to express his fascination with the landscape of Australia.

Woldendorp will be available at noon Friday, March 21, in the HUB's Gallery Lounge for an informal discussion.

Juried exhibition

Penn State Berks campus' Freyberger Gallery will host the Nittany Lion Juried Exhibition XII: "Timelines," from March 21-April 17. This biennial exhibition highlights some of the most exciting artists of southeast Pennsylvania and beyond. "Timeframes" is a collaborative project with Albright College's Freedman Gallery and the Reading Public Museum. The theme is "time."

Works will be selected from the submitted proposals to be part of the exhibition. Cash merit awards will be presented, and four to five artists will be invited to participate in the Groulx-Kauffman Award Exhibition in fall 1997.

There will be a free public reception from 5-7 p.m. Friday, March 21. For more information, phone Beverly Leviner, gallery director, at (610) 320-4870.

Percussionist to give recital

Douglas Walter, marimbist and vibraphonist, will perform a guest artist recital at 5:30 p.m. Saturday, March 22, in room 122 of the College of Arts and Architecture's Music Building II

on the University Park campus.

Walter, currently teaching at the University of Colorado, is the only percussionist to win the Concert Artists Guild Award. Walter is equally accomplished in the jazz, orchestral and chamber music realms, having performed with organizations from the Philadelphia Orchestra, to the North Texas One O'Clock Jazz Band, to the New American Ragtime Ensemble.

The concert is free to the public.

Chamber orchestra concert

The Penn State Chamber Orchestra, under the direction of Pu-Qi Jiang, associate professor of music, will present a concert at 3 p.m. Sunday, March 23, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

The Chamber Orchestra consists of more than 25 of the School of Music's top instrumentalists. It performs only in the spring. The concert is free to the public.

Behrend Concert Choir prepares for Carnegie Hall

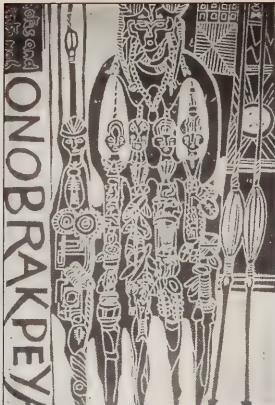
The Concert Choir at Penn State Erie, The Behrend College, made up of students who are not majoring in music, will perform Faure's "Requiem" Sunday, March 23 at 3 p.m. in the Reed Union Building Commons. This presentation will prepare the 40 members of the Concert Choir to perform the same piece one week later, Sunday, March 30, on stage at Carnegie Hall in New York City.

At Carnegie Hall the Concert Choir will combine with 250 voices representing six colleges.

Admission to the Concert Choir performance at Penn State-Behrend on March 23 is \$4. Tickets may be reserved in advance by calling (814) 898-6289.

Odyssey on WPSU

On the next episode of Odyssey Through Literature, Leonard Rubinstein and Wimal Dissayanake of the University of Hawaii discuss Eastern concepts of self. Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WFSB, 90.1 in northern Pennsylvania.



Art lecture

Sharon Pruitt, associate professor of art history at East Carolina University, will give a lecture at 7:30 p.m. Tuesday, March 25, in the Palmer Lipson Auditorium on the University Park campus. Her talk will focus on the work of Nigerian printmaker Bruce Onobrakpaya.

French Horn Ensemble to play on March 24

The Penn State French Horn Ensemble, directed by Lisa O. Bontrager, associate professor of music, will present a free concert at 8 p.m. Monday, March 24, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

Tuba soloist, Jason Byrnes, a graduate tuba performance student, will be featured in the Bernhard Heiden *Variations for Solo Tuba and Nine Horns*. In addition to the repertoire for the 18-member ensemble, Bontrager and assistant director Kim Rees will present *Calls for Two Horns* by Verne Reynolds.

Film festival

The Mont Alto campus Arts Project, an organization that encourages appreciation of the arts, presents its first Foreign and Cult Film Festival during the month of March. The series is free to the public. Films to be shown are:

- Monday, March 24, "King of Hearts," a 1967 French comedy and '60s cult film.
- Monday, March 31, "Blue Angel," Marlene Dietrich stars in this German '30s classic that launched her career.
- Tuesday, April 1, "Murder on the Orient Express," based on Agatha Christie's mystery novel.

All films will be shown at 7:30 p.m. in the auditorium, General Studies Building, with the exception of "Murder on the Orient Express," which will be shown in the Conklin Hall Game Room.

Following the films, a short panel discussion will be held. For more

information, contact Peggy Russo at (717) 749-6231.

"Faces of America"

A one-person show that addresses the questions of multiculturalism in today's society through the eyes of Generation X will be presented at 8 p.m. Wednesday, March 26, in Schwab Auditorium on the University Park campus. The play, featuring eight characters, is free to the public.

"Faces of America" is based on true stories researched through workshops and interviews with high school and college-age populations. The eight characters depicted, all played by actress Fran de Leon, each represent a different cultural aspect of American society: African, Asian, Mexican-American, Native American Indian, East Indian, European, Hapa (mixed blood) and an "All in One Generation X-er."

First produced at the Los Angeles Theatre Center in March 1995, "Faces of America" has since toured numerous West Coast colleges, as well as several southern California arts and heritage festivals. The play is directed by Colin Cox, artistic director and founder of Will & Company, a Los Angeles-based theatre company dedicated to arts in education and multicultural work in classic and contemporary pieces.

For more information on the event, contact the Paul Robeson Cultural Center at (814) 865-3776.

Bach's Lunch features concert choir

The Penn State Concert Choir, directed by D. Douglas Miller, professor of music, will perform at the free 20-minute Bach's Lunch concert at 12:10 p.m. Thursday, March 27, in the Helen Eakin Eisenhower Chapel on the University Park campus.

Audience members are invited to take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Trombone choir to mix it up

The Penn State Trombone Choir will present a free performance of the "Requiem" by Gabriel Faure as transcribed by Mark Lusk, associate professor of trombone, on Thursday, March 27 at 8 p.m. in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

The trombone choir, under the direction of Lusk, will be joined by other students from the School of Music. Readings of literature by Donald Hall, T.S. Eliot and Dylan Thomas

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, March 21

Kern Graduate Commons, noon, Kern Lobby. Concert titled "Victorian Brass."

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk by Robin Seymour on "Painting by The Eight" at the Palmer Museum."

Center for the Performing Arts, 8 p.m., Schwab Auditorium. "Arts Quartet." For tickets, phone (814) 863-0255.

"Penn State's 12th Annual Graduate Research Exhibition," 8 p.m., 122 Music II. The "Performance Option" of this exhibition.

Saturday, March 22

"Penn State's 12th Annual Graduate Research Exhibition," 10 a.m. to 6 p.m., HUB Ballroom.

Palmer Museum of Art, 11 a.m., Christoffers Lobby. Jan Kinney presents a "Storyline" for the entire family.

"Thundamental Monster Trucks," 8 p.m., The Bryce Jordan Center. School of Music, 5:30 p.m., 122 Music II. Guest Recital presents Douglas Walter, percussion.

School of Music, 8 p.m., Recital Hall. Graduate Recital presents Jeanne Provane, flute.

Sunday, March 23

"Thundamental Monster Trucks," 8 p.m., The Bryce Jordan Center.

Center for the Performing Arts, 3 p.m., Eisenhower Auditorium. "Wind in the Willows."

For tickets, phone (814) 863-0255. School of Music, 3 p.m., Recital Hall. "Chamber Orchestra" with Pu-Qi Jiang, conductor.

For tickets, phone (814) 865-0431. School of Music, 4 p.m., 122 Music II. Graduate lecture/recital presents Jeanne Nagurny, voice.

Monday, March 24

Center for Women Students, 7 p.m., 102 Thomas. Film titled "She Cried No."

School of Music, 8 p.m., Recital Hall. "Horn Ensemble" with Lisa Bontrager, director.

Tuesday, March 25

School of Music, 8 p.m., Recital Hall. "Flute Studio Recital."

Wednesday, March 26

Center for Women Students, 1200 to 1 p.m., CWS Resource Room, 120 Boucke. Film, "For Better or Worse: Same-Sex Marriage."

School of Music, 8 p.m., Recital Hall. Faculty Recital presents "Pennsylvania Brass Works."

Thursday, March 27

■ B'nai B'rith Hill Foundation, 7:30 p.m., Palmer Lipson Auditorium. Film titled "Siege."

School of Music, 8 p.m., Recital Hall. "Trombone Choir/University Brass" with Mark Luk, director.

Friday, March 28

Palmer Museum of Art, 2 p.m., Christoffers Lobby. Gallery Talk presents Catherine Ciferri on "American Watercolors at the Palmer Museum."

Saturday, March 29

School of Music, 8 p.m., Recital Hall. Student recital presents Nina Solisov, cello.



"A Thousand and One Nights"

The Indianapolis Ballet Theatre presents the original ballet "A Thousand and One Nights" at 8 p.m. Friday, April 4, in Eisenhower Auditorium on the University Park campus. For more information on the production, contact the ticket center at (814) 863-0255.

Kiss: 7:30 p.m., The Bryce Jordan Center.

Sunday, March 30

Phil Collins: 8 p.m., The Bryce Jordan Center.

Monday, March 31

School of Music, 8 p.m., Recital Hall. Student Recital presents Kristin Lunetta, voice, and Tom White, piano.

SEMINARS

Friday, March 21

Office for Minority Faculty Development, 2 to 4 p.m., 301A Agricultural Administration. "Teaching and Mentoring Minority Undergraduates (Effective Approaches and Strategies)."

Biology, 2:30 p.m., 8 Mueller Laboratory. Xing Wang Deng on "A Light-Regulated Developmental Switch in Arabidopsis."

Accounting, 3:30 to 5 p.m., 333 Beam. Dhananjay Nanda on "Non-Financial Measures and Management Control in Cost Centers."

Monday, March 24

Continuing and Distance Education and the College of Education's Adult Education Program, 11:45 a.m. to 1 p.m., 502 Keller. Ann H. Luck on "Nuts and Bolts of Distance Education Capabilities."

■ Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Paul Robillard on "Monitoring Networks in Ecuador: A Fulbright Experience."

Physics, 3:30 p.m., 339 Davey Laboratory. John Hook on "Superfluidity of Helium in Aerogel."

The Institute for High Performance Computing Applications, 3:35 to 4:25, 215 Hammond. George Karniadakis on "Spectral/Ph Element Methods for Parallel

Computers."

Science, 8 p.m., 111 Boucke. Peter Goldreich on "Heliosismology."

Lesbian Gay Bisexual Student Association, 8 p.m., Eisenhower Auditorium. Tony Kushner, author of *Angels in America*, to speak.

Tuesday, March 25

Continuing and Distance Education, 2 to 4:30 p.m., The Penn State Scanticon: Panelists to speak on "Rural Education and the Information Highway: Making Connections, Building Communities."

Science, 3 to 4:30 p.m., 101 Thomas. DuPont executives and four Penn State deans discuss, "Science and Technology: An Industrial Perspective."

Biology, 4 p.m., 8 Mueller Laboratory. Christopher Paradise on "Abiotic Factors, Resources and Treehole Insect Communities."

Science, 4 p.m., SS Osmond Laboratory. Peter Goldreich on "Clues About How Planets Form."

Nutrition, 4 p.m., S209 Henderson. Henry Ginsberg on "Regulation of Lipoprotein Assembly on the University Park campus. For more information on the production, contact the ticket center at (814) 863-0255."

■ Art History, 7:30, Palmer Lipson Auditorium. Sharon Pruitt on "Contemporary Nigerian Art."

Geoscience, 4 p.m., 112 Walker. Jim Kennett on "Causes of Late Quaternary Climate Change: A Santa Barbara Basin Perspective."

■ Art History, 7:30, Palmer Lipson Auditorium. Sharon Pruitt on "Contemporary Nigerian Art."

Women's Studies, noon to 1:30 p.m., 102 Weaver. Lori Ginzberg on "Sexuality and Citizenship."

Gerontology Center, 12:15 to 1:15 p.m., The Living Center, 110 Henderson. Sara Lelich on "A Comparison Between Medical and Social Models of Adult Day Care."

Accounting, 3:30 to 5 p.m., 333 Beam. Christopher L. Jones on "The Association of Discretionary Accruals with Current Returns, Current Market Values and Future Returns."

■ Paul Roberson Cultural Center, 3:30 to 5 p.m. Oyeronke Oyewumi on "Feminism and African Gender Formation."

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. Mark D. Walters on "MEMS: The Next Industrial Revolution."

Science, 4 p.m., SS Osmond Laboratory. Peter Goldreich on "Turbulence on Earth and in Space."

■ Women's Studies, 7 p.m., 123 Chambers. "Female Circumcision: Rite of Passage or Genital Mutilation?"

College of Communications and the Pennsylvania Center for the First Amendment, 7:30 p.m., Assembly Room 112, Kern Graduate Center. Panelists will hold a roundtable discussion to address the legal, ethical, health and marketing issues surrounding the advertising of alcohol and tobacco products.

Thursday, March 27

Sigma Xi, noon, 110 N. Henderson. Kenneth A. Johnson on "AIDS: Search for a Cure."

Women's Studies, noon, 12 Sparks. Video, "The American Experience 2. Ida B. Wells: A Passion for Justice."

Physics, 3:30 p.m., 101 Osmond Laboratory. Ben Widom on "Phases and Their Interfaces."

Health and Human Development, 4 p.m., S209 Henderson. Barbara Ross on "Need or Greed: Why Do We Eat?"

Women's Studies, 4 to 5:30 p.m., 102 Weaver. Lynda Goldstein and Virginia Smith on "Martha Stewart: Domestic Dominance as Cultural Icon."

Women's Studies, 7:30 p.m., 101 Kem. Mary Hill on "Charlotte Perkins Gilman: A Woman's Struggle with Womanhood."

■ College of Communications, the Department of Comparative Literature, the Asia-Pacific Task Force and Chinese Culture Club, 8 p.m., Kern Auditorium. Panelists on "Red China in Black and White: Misrepresentation in the Media Age."

Friday, March 26

Biology, 2:30 p.m., 8 Mueller Lab. Philip Benfey on "Radial Patterning and Cell Expansion in the Arabidopsis Root."

Monday, March 31

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. D. Yung on "High Performance Fortran and Java Compilers."

CONFERENCES

Wednesday, March 26

Forest Resources, Nittany Lion Inn. Conference on forest issues, through 27.

Monday, March 31

President's Commission on Racial/Ethnic Diversity, Nittany Lion Inn. "Diversity - Beyond Awareness and Education."

EXHIBITS

HUB Art Alley Panels

Oil and print exhibit by Amy Jane Whitney and Darren R. Gier, through May 4.

HUB Browning Gallery

■ "Photographs of Australia" by Richard Woldendorp, through April 27.

HUB Formal Gallery

Mixed media works by Howard Brooks, March 25-May 4.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Photographic work of David Driscoll, through April 6.

North Halls

Paintings by Jodi Ruffner, through April 30.

Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

Zoller Gallery

School of Visual Arts, "Undergraduate Juried Exhibition," through March 28.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://icac.psu.edu/calendar/>

Private Giving

Four alumni lead campaign in Mid-Atlantic states

Four more Penn State alumni have been named members of the steering committee for the University's upcoming capital campaign. They will work to secure major gifts from alumni and friends in Philadelphia, New York City and other Mid-Atlantic communities.

The new members are **Edna Peterson Bennett**, a benefactor of the College of Health and Human Development, of Wilmington, Del.; **J. Lloyd Huck**, retired chairman of the board of Merck & Co. and former president of the Penn State Board of Trustees, of Morristown, N.J.; **Ira M. Lubert**, managing director of Technology Leaders L.P. of Wayne, Pa.; and **Arthur J. Nagle**, managing director of Vestar Capital Partners in New York City.

Bennett, a well-known Wilmington area civic leader and philanthropist, is a member of the "Famous 500," the first freshman class of women admitted to Penn State following World War II. She earned her bachelor's degree in home economics with an emphasis in child development in 1953. Her husband, **C. Eugene**, who died in 1996, began his Ph.D. work in chemistry at Penn State and later worked in a variety of settings, including real estate and investments.

The Bennetts' gifts to Penn State have renovated the model preschool playground for the College of Health and Human Development's Child Development Laboratory and established the Bennett Chair in Human Development and Family Studies. Bennett serves on the boards of the Second Baptist Church in Wilmington and of the Delaware Symphony.

Huck, a 1946 graduate in chemistry, will serve as campaign treasurer. Now an emeritus trustee of Penn State, he was president of the board from 1988



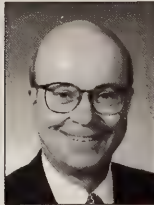
EDNA PETERSON BENNETT



J. LLOYD HUCK



IRA M. LUBERT



ARTHUR J. NAGLE

to 1991 and president of the alumni association from 1975 to 1977. After retiring in 1986 from Merck & Co. following nearly 30 years as a research chemist and executive, he was chairman of the board and CEO of Nova Pharmaceutical Corp. until 1991. The University named him a Distinguished Alumnus in 1993.

For Penn State, he has chaired the Campaign for The Hershey Medical Center, served as a committee member of the Campaign for the Library and chaired the leadership committee for establishing the Biotechnology Institute. Among other gifts to the University, he and his wife, **Dorothy**, a 1943 Penn State graduate in home economics, have supported the Biotechnology Institute and endowed chairs in medicine and in molecular and cell biology at The Hershey Medical Center, in nutrition in the College of Health and Human Development and in special collections in the University Libraries.

Lubert, a 1973 graduate in food service and hotel administration, will head the major gifts effort in the Philadelphia region. He was named an Alumni Fellow by Penn State in 1995 and is a mem-

ber of the University Libraries Development Advisory Board and past chair of the advisory board to Abington College. In addition to his work with Technology Leaders L.P., he is president of IL Management, manages two venture capital funds and oversees acquisition strategies for GF Management.

A former Penn State wrestler, he was an alternate member of the 1972 U.S. Olympic Wrestling Team and has started wrestling camps to encourage development of youth in the sport. In addition to supporting other areas, gifts from Lubert and his wife, **Karen**, a 1971 Penn State graduate in education, have endowed a wrestling coach position, scholarships for Abington College and a student professional development program in the School of Hotel, Restaurant and Recreation Management.

Nagle, a 1961 graduate in mathematics and resident of Bronxville, N.Y., will head the major gifts effort in the New York region. Following graduation, he went on to work for IBM and served as an officer in the U.S. Navy before earning an MBA from Columbia University in 1967. He then worked with

investment banking for First Boston Corp. until 1988, when he became a co-founder of Vestar Capital Partners. He is a director of numerous corporations, including Prestone Products, Chart House Enterprises and Remington Products.

At Penn State, he served on the committee leading the campaign to raise funds for The Bryce Jordan Center. Gifts from Nagle and his wife, **Paige**, a Northwestern University graduate and interior designer, have supported the Penn State Education Partnership Program, the Jordan Center and the Campaign for the Library. The Nagles also have endowed several scholarships, including one for women's soccer student-athletes.

The new campaign will aim to raise private funds for scholarships, graduate fellowships, faculty endowments and a variety of academic programs. The campaign's goal will be announced later. The regional members will join campaign chair **Edward R. Hintz** of New York in providing leadership for the fund drive and soliciting major gifts.

Partings

Assistant to dean in Smeal College retires

Trudy A. Smith, The Smeal College's long-time administrator for personnel and facilities, has retired. Holding the title of assistant to the dean for human resources and administrative services, she served the college for 24 years, and worked for the University of Pennsylvania for a total of 30 years.

A native of Germany, she joined Penn State in 1967 as an assistant to **Eugene J. Kelley**, dean emeritus of The Smeal College. In 1973, Smith took on her role as personnel and facilities coordinator. Over the ensuing



TRUDY A. SMITH

years, she served in numerous leadership roles for committees and task forces at both the college and University levels. These groups concerned themselves with a wide range of matters from budgetary and planning subjects to diversity and women's issues. In all, Smith was active in some 40 college and Penn State organizations. In addition, she managed activities for several college and community conferences. In 1988, she was nominated for the John E. Willinson Award for Administrative Excellence.

Smith became associate chair of the Centre County United Way in 1979 and, over the years, also served on groups within the University supporting the United Way. Her successful work with the charitable group was recognized with awards in 1985 and 1996.

She was a member of the American Management Association and the Centre County Personnel Association.

Other retirements

Dorothy I. Barnett, residence hall worker, Housing and Food Services, from March 4, 1976, to Jan. 4.

Anthony N. Bertoni, maintenance mechanic at The Hershey Medical Center, from May 24, 1976, to Dec. 21, 1996.

Zdzislaw T. Bieniawski, director of the Mineral Resources Institute and professor of mineral engineering, College of Earth and Mineral Sciences, from March 1, 1978, to Jan. 1.

Faculty/Staff Alerts

Penn State golf courses

The White Course and Driving Range on the University Park campus are open. The Blue Course will open on Saturday, March 29. Season passes are on sale now. Hours are 9 a.m. to 5 p.m., Monday through Friday.

Registration nears for diversity workshop

The registration deadline for the workshop, "Diversity: Beyond Awareness and Education" on Monday, March 31, at The Nittany Lion Inn, University Park campus, is Friday, March 21.

There is a registration fee of \$20, which includes lunch and some resource materials. For registration information, contact Shannon Hoover at (814) 863-8493 or at sqh7@psu.edu.

Numbers needed

In 1996, more than 13,000 Penn State students were involved in community service totaling more than 255,000 hours across the state. This represents approximately \$1.3 million, based on a minimum wage average.

These numbers are underestimated due to underreporting. Student organizations and University departments are requested to submit their numbers for the 1996-1997 report. If you have not received a report form, please call the Office of Volunteer Programs and Services at (814) 863-4624 for a copy. Deadline is March 31.

SERS counseling center relocates

The State Employees' Retirement System State College Retirement Counseling Center has relocated from its previous location at 208 West Hamilton Ave. in State College, to 2525 Green Tech Dr., Suite AA, State College. The local and toll-free telephone numbers remain the same: (814) 863-6505 and 1-800-633-5461.

Libraries adds new twist to databases

"New Titles," the Library Information Access System's (LIAS) most recent addition to its family of databases, contains new titles that are on order or have been added to Penn State's catalog. The CAT, during the past six months. New Titles contains only "brand new" titles—those not previously found in the CAT. If another copy or location is added to an existing title in the CAT, it isn't considered a new title.

New Titles even includes call number and status information, and is searchable using any LIAS command. To find this resource, go to the selection menu by typing "select" at any LIAS prompt (>>>). Choose "New Titles" and press ENTER. You can search this database by using the familiar LIAS commands and techniques. Type "help new" at any

prompt (>>>) in the CAT for details and examples.

In the early morning hours of the first Saturday of each month, New Titles will be updated so that the previous month's additions are added and the oldest month's titles are discarded. A message on the welcome screen tells you the current date range.

Affirmative action for Vietnam/disabled veterans

The University is a government contractor subject to Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended. This regulation requires government contractors to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era.

A "disabled veteran" is a person entitled to disability compensation under laws administered by the Veterans Administration, for disability rated at 30 percent or more, or a person whose discharge or release from active duty was for a disability incurred or aggravated in the line of duty.

A veteran of the Vietnam era is someone who served in active duty during the period beginning on Feb. 28, 1961, and ending May 7, 1975, in the case of a veteran who served in the Republic of Vietnam during that period; or the period beginning on Aug. 5, 1964, and ending on May 7, 1975, in all other cases, and qualified for coverage during the first four years following discharge from the service.

If you are a disabled veteran or Vietnam veteran covered by these definitions and would like to be considered under the affirmative action program, please contact the Affirmative Action Office at (814) 863-0471.

The information requested is voluntary and will not be used to adversely affect the terms and conditions of your employment. It will be kept confidential, except that (1) supervisors and managers may be informed regarding restrictions on work duties and necessary accommodations; and (2) first aid personnel may be informed, when and to the extent appropriate, if the condition might require emergency treatment.

Affirmative action for individuals with disabilities

Penn State is a government contractor subject to Section 503 of the Rehabilitation Act of 1973, which requires government contractors to take affirmative action to employ and advance qualified individuals with disabilities.

If you have a physical or mental impairment, a record of having had such an impairment or are regarded as having an impairment that substantially limits your ability to secure, retain or advance in employment, we would like to include you under the affirmative action program.

It will assist us in proper placement and appropriate accommodations if you tell us about any special methods, skills or procedures which qualify you for jobs that you might not otherwise be able to do because of your impairment, so that you may be considered for any position of that kind, and (b) possible accommodation which could be made to enable you to perform the job properly and safely.

Submission of this information is voluntary and refusal to provide it will not subject you to discharge or disciplinary treatment. Information obtained concerning individuals shall be kept confidential, except that (1) supervisors and managers may be informed regarding restriction on the work duties of handicapped individuals, and regarding necessary accommodations; (2) first aid and safety personnel may be informed if the condition might require emergency treatment; and (3) government officials investigating compliance with the act will be informed.

If you are an individual with a disability and would like to be considered under the affirmative action program, please contact the Affirmative Action Office at (814) 863-0471 V/TTY.

Religious holidays days

Occasionally students request exemptions from class attendance and other University obligations for purposes of religious observance. The Center for Ethics and Religious Affairs, in consultation with campus and community religious leaders, has compiled a list of holy days of the major world religions for which observance may require a student to depart from his/her normal routine. The list can be obtained by contacting the center at (814) 865-6548, or on the Web at <http://cac.psu.edu/~jcw6/rchln.html>. Only those holy days which occur while classes are in session are listed.

True PSU

In 1994, Penn State introduced True PSU, a residential long-distance program available to full-time faculty and staff. Since then, True PSU Calling Cards with low fixed rates have been offered, discounts have increased, bill changes have been implemented to meet user requests, and a policy change was implemented so retired employees, eligible for benefits, and spouses who are eligible to continue benefits from the University may retain True PSU service.

Detailed information about the True PSU program and features, how the program works, how to enroll and more, can be found at the Office of Telecommunications' Web site at <http://www.etc.psu.edu/services/tru-psu.html>. For those who may not have access to the online information, True PSU program information packets are available by calling the Office of

Telecommunications' Business Office at (814) 865-8311.

Bicycle hazards

As a reminder to the University community, the parking and securing of bicycles in non-approved locations poses a safety hazard. The parking and locking of bikes on exterior ramps, stairs, landings, handrails and guardrails can hinder and block the normal use of these essential building components, as well as entrance and exit doors.

When bikes are taken into buildings similar problems are encountered. Bikes not only impede the movement of building occupants out of the building in an emergency but also can restrict emergency personnel moving into the building. If bikes are observed in non-residential buildings or parked in areas causing a potential hazard, the user can expect the bike to be removed and impounded by Police Services.

For more information, please refer to University Safety Policy SY - 16 "Regulations for Bicycles/Mopeds/Skateboards/Scooters/Roller Blades/Roller Skates."

Taxes on University benefits

Due to changes in the IRS laws regarding the graduate-level tuition discount benefit for employees and their spouses, the University Payroll Office will be withholding taxes on one-third of the benefit in the March 28 biweekly and monthly payrolls. The remaining two-thirds will have the taxes withheld in the following two consecutive pay periods. This legislation has no impact on individuals appointed as graduate assistants. Under the law, the benefit for graduate-level tuition discount is subject to withholding tax and reported as income on the employee's W-2.

Presently, there are three versions of legislation that will remain in bill beyond the June 30, 1997, expiration date. The good news is that all three forms of the current pending legislation will exempt the graduate tuition benefit from being taxed in the future. In addition, both the U.S. House and the Senate's version include language that will make the tax exemption permanent. Only President Clinton's version retracts the exemption as temporary, with an expiration date of Dec. 31, 2000.

If this legislation is not in place in time for the summer '97 sessions, the present plan is to add the benefit received for the summer into the July monthly payroll and the Aug. 1 biweekly payroll. As new information is available regarding this legislation, the University Payroll Office will publicize it to the University community.

Anyone with questions can call the payroll office at (814) 865-7621 or e-mail payroll@psu.edu.

Appointments

Center names associate director

Carol L. Everett has been named associate director of the Center for Quality and Planning. In this position, she will consult with academic and academic support units in planning and quality improvement initiatives. Many of the responsibilities of her former position as assistant director of the CQI Center (1993-1996) will continue into her current position, including consulting with leaders of academic and administrative units to define their core customers or constituents; identifying the unit's critical processes; and assisting in the formation of quality improvement teams around those processes. Everett will continue to develop and implement the University's CQI marketing plan that promotes and recognizes the University's quality improvement initiatives.



CAROL L. EVERETT

Everett has a bachelor's degree in French from the University of Montana, a master's degree in education from the University of North Carolina at Chapel Hill, and an MBA from Penn State. From 1978-1992 she was a senior planning analyst in the Office of Planning and Analysis. Everett is the author of institutional research reports on student retention and student outcomes and was the project director for annual analyses of faculty salaries. As a member of the Equal Opportunity Campus Evaluation Team, she participated in site visits of Penn State's Commonwealth Campuses to evaluate programs and activities for minority students.

Everett served as an examiner for the Pennsylvania Quality Leadership Award in 1996 and represents Penn State on the American Association for Higher Education Campus Quality Coordinators Network.

Planning consultant comes on board

Mary Ellen Litzinger has been named quality and planning consultant facilitator in the Center for Quality and Planning. In this position, she will be responsible for helping units to integrate quality principles and tools into the strategic planning process.

Litzinger received her bachelor's degree in English from Ithaca College in 1971; her master's degree in library science from the University of North Carolina-Chapel Hill in 1972; and her doctoral degree in instructional systems from Penn State in 1994. Since coming to Penn State in 1981, she has served the University Libraries as a general reference librarian, an instructional specialist and an education librarian. Litzinger also is an integral part of the libraries' CQI efforts, and served on a team which investigated the delivery of basic library skills instruction. Among her recent activities are designing and teaching a course in process benchmarking, and investigating quality improvement initiatives in industrial and academic settings.

The author of many articles and book chapters on the role of user education in academic libraries, Litzinger also is the co-author of *Creating Connections: A Four-Step Program for Managing Your Stress*. She has been an adjunct professor at the University of Hawaii



MARY ELLEN LITZINGER

School of Library Science and a consultant to the Bibliothèque Centrale, Université du Burundi.

New CEO named for Mont Alto

David H. Goldenberg, executive dean of The Sage Colleges in Troy and Albany, N.Y., and dean of Russell Sage College, has been named campus executive officer of the Mont Alto campus, effective June 15. The Mont Alto campus will become one of 12 campuses of the Commonwealth College on July 1.

As executive dean, Goldenberg is one of five senior central officers of the multi-campus Sage Colleges, which has a combined enrollment of about 4,000 students. He has been responsible for academic and student affairs, enrollment management, registrar offices, libraries, administrative computing and academic technologies.

He also serves as the chief academic and chief student life officer of Russell Sage College, the undergraduate college for women, and he has the academic rank of full professor in the Department of Education. Contributing author to *Academic Advising and Faculty Roles* (1995) and *Enhancing Academic Advisement Through Faculty Development* (1996), Goldenberg also has written on the law and student discipline, leadership training and models for shared learning.

Before assuming positions at the Sage Colleges in 1991, Goldenberg was at Bellarmine College in Louisville, Ky., from 1986 to 1989 where he served as dean, assistant vice president for academic affairs and associate provost for academic affairs. He was responsible for the academic, financial, technology and international programs of the college. He also managed the Data Courier, an international online database of business information, an industry-college venture in economic development.

From 1978 to 1986 he was at Bradley University in Peoria, Ill., as director of the Center for Orientation, Advancement and Retention and then chair of the Academic Exploration Program. He also was a specialist in student affairs at the University of the State of New York, the State Education Department, Albany, from 1976 to 1978.

Goldenberg received his doctor of education degree in education administration from Illinois State University and his B.S. and M.Ed. from the University of Hartford, Conn. He also has certificates of advanced study from Cornell University in labor law, Harvard University in educational management and a post-doctoral certificate in art history from Oxford University.

Among his most recent awards is a certificate of recognition from the New York State Higher Education Opportunity Program and an outstanding service award from the National Academic Advisers Association. He serves on a number of professional and community boards, including as chairman of the Academic Council for Hudson Mohawk, a consortium of 18 colleges in the area.

Smeal College welcomes new assistant to the dean

Christopher A. Fivek has been appointed the assistant to the dean for human resources in The Smeal College of Business Administration. In his new post, he will coordinate human resources activities and needs for an organization of more than 220 faculty and staff members. Fivek succeeds Trudy A. Smith, who recently retired after 30 years of service at Penn State. (See page 12).

For the majority of Fivek's 21-year professional career, he has been a manager with Agway Inc., joining the company shortly after his graduation from Albright College, Reading, Pa., in 1975. His



CHRISTOPHER A. FIVEK

first position was as a line-planner manager. In 1983, he was named district manager in the firm's energy division, supervising 10 petroleum bulk plant operations in four states. Four years later, he became regional human resource manager, with responsibility for nearly 1,000 employees at 125 locations in Pennsylvania, Maryland and New York.

In 1995, he joined Penn State as human resource officer for the Commonwealth Educational System.

Fivek holds a bachelor of arts degree in sociology from Albright and has taken numerous management and human resource-related training courses. He also is certified in activity vector analysis and workforce empowerment. He is a member of the Society for Human Resources Management and the Harrisburg Area Personnel Association.

Interim CEO in place at Great Valley

Madlyn L. Hanes has been named interim chief executive officer at the Penn State Great Valley Graduate Center, effective March 15.

Hanes, an associate professor of curriculum and instruction, joined Penn State in 1988 as director of academic affairs at the Delaware County campus.

From 1995-96, she served a dual role as director of academic affairs at Penn State Great Valley and Delaware County campuses.

Hanes has served a number of leadership roles in higher education, including a three-year post as chairwoman of Penn State's Commission on Undergraduate Education from 1992-1995. Her international experience includes work with overseas American schools, ministries of education and higher educational institutions in Ecuador, Israel, Korea and Jamaica, and a special appointment to the University Council of Jamaica. Her area of scholarly research includes professional education and curriculum design. She is the author of two books, 30 articles and monographs and 20 technical reports to sponsors on program development and accreditation and professional licensure.

Hanes has presented more than 75 scholarly papers and invited addresses, more recently on matters of educational reform, at a range of national and international professional and technical meetings she currently serves on the state board of the Pennsylvania American Council of Education, and as one of Pennsylvania's three delegates to the national office of women in higher education administration.

Hanes earned her Ph.D. in curriculum and instruction from the University of Florida, where she also earned her B.A. in English and her M.A. in speech pathology. She is a licensed speech-language pathologist with the American Speech-Language Hearing Association. Before joining Penn State, she served as director of graduate studies in the College of Education at the University of South Carolina, where she also headed its graduate reading and language clinic.



MADLYN L. HANES

Arts

continued from page 10

will be interspersed between the movements of the "Requiem."

"A Thousand and One Nights"

Prepare to be whisked away to a far-off land when the Indianapolis Ballet Theatre performs "A Thousand and One Nights" at 8 p.m. Friday, April 4, in Eisenhower Auditorium on the University Park campus. The concert continues the Body Language series sponsored by the College of Arts and Architecture's Center for the Performing Arts.

"A Thousand and One Nights," an original ballet by Indianapolis artistic director **Eldar Aliev**, premiered in April 1995, drew rave reviews from the international media and was named one of the year's "Top 5" dance events by the *Indianapolis Star*. Aliev's two-act rendering was inspired by Fokine's ballet "Scheherazade," adapted from classic literature's *Arabian Nights*.

Tickets for general admission are \$25.50; students \$21.50. For tickets or more information, contact the Arts Ticket Center, open Monday through Friday from 8:30 a.m. until 4:30 p.m., at (814) 863-0255. (Outside the local calling area, phone (800) 278-7849.

Jewelry at the Kern Exhibition Area

The Kern Graduate Jewelry Flat Cases feature the jewelry of **Laveta Piemme** through April 6.

Piemme, who has worked with clay for more than 25 years, has shifted her focus from wheel-thrown pottery to jewelry, while continuing to combine colors that sing in harmony with one another.

Art on the Move

Art on the Move, exhibited in North Halls on the University Park campus, will display the paintings of **Jodi Ruffner** through April 30.

Ruffner has exhibited paintings at the Zoller Gallery and Patterson Gallery at University Park and the Doshi Center for Contemporary Arts in Harrisburg.

A native of York, Pa., Ruffner is a junior majoring in the fine arts.

Special exhibit in HUB's Art Alley

The Hetzel Union Building's Art Alley on the University Park campus features an exhibit of oil and print through May 4.

The printmaking work of **Darren Grier**, a senior art major, and the oil painting of **Amy Whitney**, also a senior art major, is on display.



One-woman show

Fran de Leon portrays eight different people in the March 26 play, "Faces of America," at 8 p.m. in Shwab Auditorium on the University Park campus. For more information on the free show that addresses multiculturalism in today's society, call the Paul Robeson Cultural Center at (814) 865-3776.

Photo: Courtesy of Paul Robeson Cultural Center

Mixed media in the HUB

The Equal Opportunity Planning Committee and the HUB and Kern art galleries present the mixed media works of **Howard Brooks**, March 25-May 5 at the HUB's Formal Gallery on the University Park campus.

Brooks, an artist whose work is done in oils, acrylics and collage techniques, earned his MFA degree at The Cranbrook Academy of Art in Bloomfield Hills, Mich., and his doctor of divinity and doctor of psychology degrees from the College of Divine Metaphysics in Indiana.

Berks Festival Theatre

As the Penn State Berks and Lehigh Valley campuses merge to form the new Penn State Berks-Lehigh Valley College, the college will become home to a new theatre: Berks Festival Theatre. The theatre will feature professional actors, undergraduate and graduate students, and performers from the Reading and Lehigh Valley areas. The 1997 premiere season opens June 20 with "Quilters," a musical based on the lives of American pioneer women, which will run through July 6. "Man of La Mancha," featuring Lehigh Valley veteran performer **Bob Kratz** in the title role, opens July 25 and continues through Aug. 10.

Slavic Folk Festival from April 11-13

The 19th Annual Penn State Slavic Folk Festival, showcasing cultural achievements of Pennsylvania's Slavic-Americans, will be held from 10 a.m. to 10 p.m. Friday, April 11, and Saturday, April 12; and from 12:30 p.m. to 6 p.m. on Sunday, April 13, in the ballroom of Hetzel Union Building on the University Park campus.

The festival will feature exhibits, demonstrations of folk art and live performing groups. There will be book and artifact booths, an ethnic snack bar and special events for children from 10 a.m. to noon Friday, including a balalaika and accordion duo.

The evening performance on Friday, starting at 7 p.m., will feature the Polka Players. On Saturday, the Czechoslovak Moravian Club Folk Dancers of Endicott, N.Y., will perform at 1 p.m.; the Slaviane Folk Ensemble from McKees Rocks and the Kazka Ukrainian Dancers also will be featured. The Saturday evening program will feature the Eastern European Ensemble playing music for listening and dancing, with a polka and a waltz contest.

The Sunday program will include the Original Byzantine Men's Choir, Polish, Polish dances, accordion melodies, as well as the Polka Revolution Band from Houtzdale, Pa., and a classical interlude.

The Ethnic Snack Bar will serve hot foods on Friday and Saturday from 11 a.m. to 2 p.m., and from 5 until 7:30 p.m. A limited menu of hot foods will be available on Sunday from 12:30 until 3:30 p.m. Hot and cold beverages and pastries will be available throughout the festival.

The festival is sponsored by the Penn State Department of Slavic and East European Languages and the Penn State chapter of Dobro Slovo, the national Slavic studies honor society. There is no admission charge and programs are free.

A preliminary program of festival events is available from **Toni Mooney**, festival secretary, at (814) 865-1352.



Graduate researcher

Cheryl Keller from the Department of Biochemistry and Molecular Biology explains her work, "Effects of *Mis-expression of Nautilus on Mesodermal derivatives in Drosophila*" to a curious onlooker at last year's Graduate Research Exhibition. This year's event, which features the research of more than 150 graduate students, will be held from March 21-22 in Kern Building on the University Park campus. For more information on the 12th annual exhibition, log into the Web at <http://www.gradsch.psu.edu> and click on "news and announcements."

Chocolate Chase is looking for runners

Runners may now begin to register for the 19th annual Chocolate Chase, to be held at noon Saturday, April 12 in Hershey. Chocolate Chase is a 10K race beginning and ending at The Hershey Medical Center and winding through scenic, surrounding countryside. A one-mile fun run will be held afterward.

Proceeds from the race will benefit the Dr. Thomas V. N. Ballantine Memorial Scholarship fund for medical students. Ballantine, who died in 1990, was the founder and director of the race. Since the race began in 1978, it has raised approximately \$90,000.

The Ballantine Trophy will be awarded to the top male and female finishers during an awards ceremony after the conclusion of the Fun Run. Competition classes by age group are: 18, 18-29, 30-39, 40-49, 50-59 and over 60.

To pre-register by March 30, call (717) 531-2000, enter mailbox number 3300, and leave a message with your name and address. The first 600 pre-registrants are guaranteed T-shirts in exchange for their \$10 entry fee. The race is sponsored by medical students and the Office of Student Affairs.

Penn Staters

Subhash Chander, professor of mineral processing, has been elected a distinguished member of SME, the Society for Mining, Metallurgy and Exploration Inc.

Edward J. Danis, associate director of the Division of Undergraduate Studies, gave the opening address to the ARGE-Studienberatung Conference (the German Society of Academic Advisers), in Berlin, Germany. His address, "Academic Advising in the United States: What Can We Learn from Each Other?", represents the first formal meeting between academic advisers in the U.S. and on the European continent.

Hector E. Flores, professor of plant pathology and biotechnology and director of the Science, Technology and Society Program, presented an invited workshop on "Biological Literacy" at the World Summit on Science and Science Education. Flores also presented a series of invited lectures and gave a course on "The Biosynthetic Potential of Plants in the Coming Millennium," at the Universidad Nacional Autonoma de Mexico in Mexico City.

Alireza Haghighat, associate professor of nuclear engineering, and his graduate assistant, **Glenn E. Sjoden**, presented four invited papers at the international "3-D Deterministic Radiation Transport Computer Programs: Features, Applications and Perspectives," seminar in Paris. The papers all focused on PENTRAN (Parallel Environment Neutral-particle Transport), a new, 3-D parallel particle transport code which Haghighat and his assistant developed. The code can solve large, 3-D, real-life problems much faster than available "production" codes.

Richard Hogg, professor of mineral processing, has been selected to receive the Arthur F. Taggart Award of SME, the Society for Mining, Metallurgy and Exploration Inc. Hogg, who serves as chair of the Mineral Processing Section in the Department of Mineral Engineering and chair of the geo-environmental engineering program, is being honored for a series of papers in the area of flocculation and dewatering.

Austin J. Jaffe, holder of the Philip H. Sieg professorship of business administration, served as a visiting professor of real estate economics at the Royal Institute of Technology in Stockholm, Sweden. While there, Jaffe, a faculty member in The Smeal College's Department of Insurance and Real Estate, taught a series of doctoral seminars on property rights issues in real estate markets.

James Kerlin, deputy senior director of the Center for Academic Computing, was invited by the government of the People's Republic of China to conduct a series of workshops on technology in education at the Hubei College of Education in Wuhan, China.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and the Materials Research Laboratory, presented a paper on "Hydrothermal Synthesis for Novel Applications" at the Sixth Tohwa University International Symposium on Nanostructured Ceramics in Fukuoka, Japan. He gave two invited lectures, one on "Porous Materials and Synthesis of Ceramic Powder by Hydrothermal Method" at Saga Ceramics Lab, Saga, Japan, and another on "Conventional vs. Microwave Hydrothermal Processing of Ceramic Powders" at Yamaguchi University, Ube, Japan.

Clifford J. Lissenden, assistant professor of engineering science and mechanics, presented a paper at the ASME International Mechanical Engineering Congress and Exposition. The presentation and accompanying paper, "Critique of Macro Flow/Damage Surface Representations for Metal Matrix Composites Using Micromechanics," examined various effects on the evolution of plastic flow in metal matrix composites.

Andrea Mastro, professor of microbiology and cell biology, was the invited speaker at the International Symposium on Hormones and Bioactive Substances in Milk held at Smolenice Castle in the Slovak Republic. The talk was titled "Prolactin in Milk and Immune Responses."

Peter I. Meszaros, professor and head of the Department of Astronomy and Astrophysics, has been elected a Fellow of the American Physical Society. Meszaros was cited "for valuable and influential contributions to the theory of radiation processes near magnetized neutron stars, gamma-ray burst sources, black holes and galaxy formation."

Lawrence Muller, professor of dairy science, addressed the British Grassland Society in Great Malvern, England on "Grass and Forage for Cattle of High Genetic Merit."

Richard Nichols, professor of theatre arts, was a guest artist in residence at the Central Academy of Drama in Beijing, where he directed a Chinese language theatre production of Eugene O'Neill's "Desire Under the Elms." Supported by a grant from

the Asian Cultural Council, Nichols also lectured on contemporary American theatre and taught workshops in stage voice and speech, acting and directing.

William L. Petersen, associate professor of religious studies and classical and ancient Mediterranean studies, has received a fellowship from the Netherlands Institute for Advanced Studies (NIAS), the research arm of the Royal Netherlands Academy of Sciences, and has been named director of a six-person international research team funded by NIAS for the 1997-98 academic year. The team will conduct research on "The Diatessaron's Text of the Gospel of John."

Jonathan Phillips, professor of chemical engineering, was the keynote lecturer at the 1996 International Symposium on Industrial Applications of the Mössbauer Effect held in Johannesburg, South Africa. He gave a talk titled "Correct Determination of Particle Size Distribution and Phase from Relaxed Mössbauer Spectra." While in Johannesburg, Phillips also gave an invited lecture at Witswatersrand University on "Novel Multimetallic Spillover Catalysts for Olefin and Diolefin Processing."

Charles S. Prebish, associate professor of religious studies, has been awarded a Rockefeller Foundation Fellowship in the humanities, and will spend the 1997-98 academic year at the Centre for the Study of Religion at the University of Toronto, a host institution for this program. The focus of the institute will be "North American Religious Diversity and the Academic Study of Religion." Prebish will continue his ongoing research on American Buddhism.

Jean-Claude Vuillemin, associate professor of French literature, gave the invited lecture "Hypocondria, Illusion and Dramaturgy," at the Corneille International Colloquium in Rouen, France. Vuillemin also was elected vice president of the Pierre Corneille International Research Center.

James C. Wambold, professor emeritus of mechanical engineering, and **John J. Henry**, professor of mechanical engineering, have received the 1996 National Award for Transportation Science and Ethics. The award was given by the Alliance for Transportation Research for "outstanding scientific contribution to transportation, demonstrating a fundamental commitment to safety and the environment."

25-year Awards



H. ANN HARPSTER



HILARY F. KLECKNER



R. THOMAS KLINE



BONNIE RANDOLPH



PEGGY E. REPASKY



JACK C. SHANNON

Observing 25 years of service at the University are, from left, H. Ann Harpster, operator A, Centralized Copy Center in the Office of Business Services; Hilary F. Kleckner, library assistant I, Pattee Library; R. Thomas Kline, environmental systems technician in the Office of Physical Plant; Bonnie Randolph, staff assistant VI in the math department, Eberly College of Science; Peggy E. Repasky, staff assistant VI in the Department of Education Policy Studies, College of Education; and Jack C. Shannon, professor of plant physiology in the College of Agricultural Sciences.

Awards

Professor of philosophy named Fellow

Emily Grosholz, professor of philosophy and Fellow of the Institute for the Arts and Humanistic Studies, has been awarded one of 55 fellowships for postdoctoral research in humanities and social sciences from the American Council of Learned Societies. ACLS is a private, non-profit federation of 58 scholarly associations devoted to the advancement of humanistic studies in all fields of learning.

In a national competition, Grosholz was selected from a pool of 536 applications. The program is partially supported by endowment grants from the Ford Foundation, the Andrew W. Mellon Foundation, the National Endowment for the Humanities and the Rockefeller Foundation.

Grosholz's fellowship supports her work on her book *Rationality and Invention in Mathematics*, that presents a novel model of mathematical reasoning in conjunction with

historical case studies drawn from the work of the German philosopher and mathematician G.W. Leibniz. During the fellowship, Grosholz will be in residence at Penn State; editing and translating manuscripts at the Leibniz Archives in Hannover, Germany; and working at the University of Cambridge, England, where she has been appointed a visiting Fellow at Clare hall and a visiting scholar in the Department of History and Philosophy of Science for 1997-98.



EMILY GROSHOLZ

Art professor receives honor

Paul E. Bolin, associate professor of Art Education, has been selected by the National Art Education Association to receive the 1997 Manuel Barkan Memorial Award. This annual, national award recognizes an NAEA member who, through his or her published work in either *Art Education* or *Studies in Art Education*, has contributed a product of scholarly merit to the field that deals carefully and imaginatively with an important issue, problem or practice in the profession.

NAEA's membership includes elementary and secondary art teachers in 50 states, representatives from America's major art museums, state departments of education, arts councils and major colleges and universities throughout the United States and 66 foreign countries.

Smeal College recognizes outstanding staff members

Alice M. Young and Anna J. Rishel were named the winners of the first Smeal College of Business Administration's Outstanding Staff Awards. Young and Rishel were honored for exceptional professionalism, teamwork, creativity, integrity, professional development, community service and ability to work with a diverse group of colleagues and customers.

This marked the inaugural year for the Outstanding Staff Awards. Selections were made from a field of nominees by a peer committee.

Young is an administrative assistant in The Smeal College's Department of Management Science and Information Systems, reporting to the department chair. She coordinates numerous administrative functions and supervises the



ALICE M. YOUNG



ANNA J. RISHEL

activities of the department support staff. She joined the college in 1975 as a part-time secretary in the Student Records Office and rose to secretary to the assistant dean for undergraduate programs in 1981. In 1989, Young became staff assistant to the director of alumni relations, and was named to her current position in 1993.

Rishel is manager of the college's Center for Business Graphics, a facility which creates numerous electronic and hard-copy materials for students and members of the faculty and staff. Among her numerous duties, she instructs clients in the use of business graphics software. Rishel became a member of the Smeal staff in 1983, serving as an accounting clerk in the financial office. Six years later, she assumed her current duties.

Henszey was recognized with the Undergraduate Teaching Award, Welson, the Undergraduate Advising Award, and Fairbank, the Graduate Student Teaching Award. The awards were created through the generosity of Penn State alumnus Fred Brand Jr. (BA '32), an Insurance executive. The awards are based on nominations from Smeal College students and faculty members, with final selections made by a joint committee of students, and members of the college faculty and staff.

Three lauded for teaching and advising in Smeal College

Three people in The Smeal College of Business Administration were honored recently for their outstanding ability to teach and advise undergraduate students.

Benjamin N. Henszey, professor of business law and director of business programs for the Commonwealth Educational System; **Vernis M. Welson**, instructor in business administration and assistant to the dean for minority affairs and international programs; and **James F. Fairbank**, a doctoral student in management and organization received the 1997 Fred Brand Jr. Awards.

Henszey was recognized with the Undergraduate Teaching Award, Welson, the Undergraduate Advising Award, and Fairbank, the Graduate Student Teaching Award. The awards were created through the generosity of Penn State alumnus Fred Brand Jr. (BA '32), an Insurance executive. The awards are based on nominations from Smeal College students and faculty members, with final selections made by a joint committee of students, and members of the college faculty and staff.

Course earns

Student involvement and teamwork have earned Penn State's Engineering Design and Graphics 100 course this year's Outstanding Practice Award from the Division of Instructional Development of the Association for Educational Communications and Technology. The national award is given annually to honor exemplary instructional materials or systems.

The program was chosen, according to the association, because it presented an outstanding use of technology within a complete course. In addition, its innovative instructional strategy, which is replicable on a broad scale, and its general affordability were noted. For more information about ED&G 100, student projects and course management and assessment resources, visit the project's World Wide Web site at <http://www.cesl.psu.edu/setce/EDG100/>.

It's on the Web!



New Web site allows easier electronic reserve for library materials

Life has become a little bit easier for anyone who makes use of the University Libraries' Electronic Reserve System. Instead of braving the winter cold or a torrential downpour to get an assignment on reserve, some students can sit comfortably in their residence halls or offices and pull them up on the World Wide Web at URL <http://reserve.libraries.psu.edu/>. These people have Access Services Librarian **Joan Reyes** to thank.

As creator of the Web site, Reyes clicks excitedly from one link to another, showcasing the University Libraries' new electronic reserves home page. Beginning with a pilot project this fall that included eight


courses, Reyes said the new information resource offers materials such as exams, lecture notes, journal articles, course syllabi, homework solutions and assignments. All can be accessed 24-hours a day from computer labs, residence halls, University offices and even the students' homes. **Susan McMillan**, assistant professor of political science, has read-just for her international political economy course available on the new system.

"It has improved access to the reserve readings for my students," she said. "Provided they have the proper computer hardware and software, the students seem to like being able to read/print the materials from their dorm room or home."

The test project includes courses in the fields of

computer science and engineering, English, history and political science. Faculty members from the Project Vision program also have taken advantage of electronic reserves. In this process students learn subjects independently with the aid of the latest information technology.

Reyes said reserved items are scanned from an original volume or magazine and the issue of copyright is addressed on the first page of the Web site, requiring users to know the dos and don'ts before they reach the information they are searching. There also are request forms for faculty to reserve materials directly online. In addition, a survey is available for users to voice their opinions and ideas.



BOOK SHELF

Shadrach Minkins: From Fugitive Slave to Citizen, written by Gary Collison, associate professor of English, is the true story of an ordinary man in extraordinary circumstances. The book, published by Harvard University Press, is a historical look at the life of Shadrach Minkins, the first runaway slave to be arrested in New England under the 1850 Fugitive Slave Law. Through Minkins' story, readers see what day-to-day life was like for a slave in Norfolk, Va., for a fugitive in Boston and for a free black man in Montreal. Collison recreates the drama of Minkins' arrest and his subsequent rescue by a band of black Bostonians.

Ministry to the Incarcerated, a book that focuses on the prison system, has been written by Harry Covert, adjunct instructor of administration of justice and pastor of St. Peter's United Church of Christ in State College.

Published by Loyola University Press, the book contains insights for church ministry and pastoral care. Covert uses his experience as both police officer (for 19 years) and prison chaplain to examine the problems of the incarcerated. Covert addresses specific areas of inmate stress, such as low self-esteem, guilt and unrealistic expectations and explains how these can be major obstacles to a prisoner's personal and spiritual development.

Five members of the Department of Art History contributed articles to Grove's new 34-volume *The Dictionary of Art*. Professors Arnold Cutler, Roland E. Fleischer, Hellmut Hager, Elizabeth B. Smith and Craig Zabel—roughly half of the art history faculty—each wrote a chapter on his or her particular specialty for what is described as the "largest international collaboration in the history of art publishing."

The dictionary was published by Grove in New York for circulation in the United States and Canada, and by Macmillan Publishers Limited in London for circulation in the United Kingdom and Europe. In the works since 1982, the set consists of 41,000 signed articles contributed by 6,700 scholars from 120 countries.

Zabel contributed "Bank: Architecture and Decoration," to Vol. 3; Cutler, an authority on Byzantine art, had two entries: "Early Christian and Byzantine Art, Ivorys and Steatites" in Vol. 9, and "Istanbul, Art Life and Organization" in Vol. 16. Fleischer, a specialist in both 17th-century Dutch painting and colonial American painting, contributed an entry for each of

his specialties: "Ludolf de Jongh, 1616-1679" and "Gustavus Hesselius, 1682-1755." Hager, a renowned scholar specializing in the Fortunato family of architects, contributed the following entries to Vol. 11: "Carlo Fontana," "Francesco Fontana," "Girolamo Fontana II" and "Carlo Stefano Fontana," and Smith wrote several entries: "Romanesque Stone Sculptures in the Low Countries" and "Romanesque Wood Sculpture in the Low Countries," both in Vol. 26, "St. Servatius, Maastricht, Architecture and Sculpture" in Vol. 19 and "Tournai Cathedral Sculpture" in Vol. 31.

Dale Jacquette, professor of philosophy, is the author of *Meinongian Logic: The Semantics of Existence and Nonexistence*, published by Walter de Gruyter & Co., 1996. The book offers a systematic revision of formal symbolic logic for the reference and true predication of properties to nonexistent objects. The book's contents are inspired by Austrian philosopher Alexius Meinong (1853-1920) and includes a critique of the distinction between the content and object of thought in the phenomenological psychology; refutation of the theologian and archbishop of Canterbury Anselm's theories about "being" as proof for the existence of God; Meinongian modeling of the logic of scientific law; and a formal resolution of the paradox of analysis. The book serves as a challenge to traditional extensional systems of mathematical logic by acknowledging the intention of thought toward nonexistent as well as existent objects, and the distinction of nonexistent objects by differences among their basic properties.

Ram P. Kanwal, professor emeritus of mathematics, has written the second edition of a book titled *Linear Integral Equations: Theory and Technique*, published by Birkhauser, Boston.

The second edition of this widely used book, first published in 1971, has an emphasis on solving problems in applied mathematics, theoretical mechanics and mathematical physics by integral equation methods. Kanwal presents a variety of techniques and applications and has added additional material extensively throughout the book. Chapters dealing with differential equations and singular integral equations have been expanded. The book is ideal as a text for the beginning graduate course. Its treatment of boundary value problems and extended and up-to-date bibliography make the book useful to research workers in applied fields.

Manfred Kroger, professor of food science, edited the book *The Dictionary of Metaphysical Healthcare: Alternative Medicine Paranormal Healing and Related Methods*, by Jack Raso, published by the National Council Against Health Fraud Inc.

Akhlesh Lakhtakia, associate professor of engineering science and mechanics, is editor of *Models and Modelers of Hydrogen*, a textbook published by World Scientific Publishing Co. and released in July 1996. This book conveys a glimpse of the grandeur of 20th-century physics through nine essays and an interview with Hans Salihofer, an authority on hydrogen and specialty steels. Ideas in the book are simply presented and illustrated throughout, and mathematical treatments are of a tutorial nature. Facsimile reproductions of 10 key papers on the subject also are included—some of which are decades old. The book is intended to be used by high school and university science students and teachers, as well as science enthusiasts.

Christiane P. Makward, professor of French and women's studies, is author with Madeleine Cottenet-Hage of the University of Maryland and general editor of *Dictionnaire litteraire des femmes de langue française, De Marie de France a Marie NDiaye* (Paris, 1996).

Published with support from a French governmental agency for Francophone countries, this dictionary of women writers in French acknowledges its philosophical link with women's studies in the United States and Canada. About 100 critics, French and North American, have contributed to this reference work which includes 200 articles on individual women writers in French, from the origins in medieval France to the present. The work is meant as a feminist research and academic planning tool, as well as a reading companion for the general reader of literatures in French.

In addition, Makward also has prepared Volume II of the complete dramatic works of Corinna Bille (1912-1979), a French-Swiss novelist, short story writer and playwright, which was just published in Switzerland. It is titled *Les Etiranges Noces et autres inedits. Textes etablis et presentes par Christiane Makward* (Lausanne: L'Age d'Homme, 1996).

Donna S. Queeney, director of research and external relations for Continuing and Distance Education, has written *Building Partnerships with Professional Associations* to help colleges, universities and nonprofit organizations involved in continuing higher education address workforce education and training needs. She was invited to write the monograph by the University Continuing Education Association for its new "Workforce Development" Publications Series. It is the first in the series.

A few of the topics Queeney covers in her publication include: benefits of partnerships with associations; preliminary steps to establishing partnerships; identification of potential partners; and tips for making partnerships work. She also cites several successful partnerships.

Richard Robinett, associate professor of physics, is the author of *Quantum Mechanics: Classical Results, Modern Systems and Visualized Examples*, published by the Oxford University Press.

The book is a complete overview of the key concepts of nonrelativistic quantum theory at the undergraduate level. Using examples taken from the modern research literature in atomic, nuclear and elementary physics, Robinett focuses on the visual presentation of quantitative information and qualitative concepts, including imagery of quantum wave functions in one-, two- and three-dimensional systems. Among the other features of this text are a separate chapter on probability theory, an emphasis on the classical limit of quantum mechanics, wave packet solutions, a brief discussion of classical versus quantum chaos and many new end-of-chapter problems.

Ernst Schurer, professor of German and Fellow of the Institute for the Arts and Humanistic Studies, Manfred Keune, associate professor of German, and Philip Jenkins, professor of religious studies, history and criminal justice, are the co-editors of the volume *The Berlin Wall. Representations and Perspectives*, Volume 79 of Studies in Modern German Literature, published by Peter Lang, New York.

The collection of essays in this book—first presented at the international and interdisciplinary conference "The Wall, Reality and Symbol" at Penn State in October 1991—offers reflections on the Berlin Wall (1961-1989) from a wealth of interdisciplinary and international perspectives. The studies of literary and cultural texts, many not easily accessible to the English-speaking public, present the Wall as one of the most powerful phenomena and as a visible and decipherable text of 20th-century life in the heart of Germany. Several essays concentrate on the representation of the Wall in popular culture, in contemporary songs, in the cinema and even through the graffiti on the Wall itself. The final section focuses on the fall of the Wall and its aftermath.

Daniel Walden, professor of American studies, English and comparative literature, has just published *A Tragedy Full of Joy*, Vol. 15 (1996) of "Studies in American Jewish Literature," which he edited. He also contributed an article co-authored with Christina Dokou on "The Pagan Condemnation and Orthodox Redemption of Rabbi Isaac Kornfeld."

Wetlands project seeks evaluation criteria

By JOHN WALL

College of Agricultural Sciences

To most folks, wetlands are marshy ponds with a duck or two floating on the water.

To Robert Brooks, associate professor of wildlife ecology in the School of Forest Resources, "all wetlands are not created equal," and the results of a three-year study of 51 natural wetland sites in Pennsylvania have shown this to be true.

Brooks, director of the Penn State Cooperative Wetlands Center, said Pennsylvania is losing hundreds of acres of wetlands per year to development and other uses. Simultaneously, state agencies, private companies and private citizens are restoring or creating hundreds of wetland acres each year. The project, funded by the Pennsylvania Department of Environmental Protection and the U.S. Environmental Protection Agency, Region III, gives agency employees and other professionals specific guidelines to describe and categorize a variety of wetland types, including natural wetlands used as reference sites for researchers and mitigation projects.

A series of assessment techniques to help professionals evaluate restored or created wetlands have been developed during the study. "A wetland is an elusive thing to categorize," Brooks said. "The best way to describe our work is that we are creating a sort of template or blueprint that can best



Robert P. Brooks, director of the Penn State Cooperative Wetlands Center, visits the Millbrook Marsh reference wetland along Slab Cabin Run.

Photo: Greg Grieco

match the characteristics of a certain type of wetland to the site where you intend to replace or restore a wetland."

The project identified 51 sites as reference wetlands and categorized them into types. At each site, characteristics such as plant life, animal life, soil composition, sedimentation and basin shape also were analyzed and categorized.

The project also extensively researched bird, amphibian and plant species that inhabit only certain wet-

land habitats — called indicator species," Brooks said. "To truly create or restore a wetland in a specific site, you have to match the structure and characteristics of whatever wetland type best fits the site. Otherwise, the wetland will function differently."

Brooks said forested wetlands fed by groundwater are the most abundant type of wetlands in the Mid-Atlantic area, and these forested areas are most commonly lost to develop-

ment. If the forested wetlands are restored or created, the most common type is an open-water pond with emergent forest vegetation.

The flora and fauna associated with forested wetlands and open-water wetlands are markedly different," Brooks said. "What this means is that some types of wetlands will be very hard to replace, and if the choice comes down to destroying a wetland, it's important to know which types can be difficult to replace."

The team's research also revealed that while different types of wetlands obviously have different characteristics, created wetlands have different characteristics from the wetland types they are modeled on. "A created wetland looks like a natural site, but it really doesn't behave like one," he said.

Although Brooks said the wetlands assessment project has given resource professionals the tools with which to identify or describe wetland types, the next step to completing the portrait of the state's wetlands is understanding how wetlands function.

To do this, the Penn State Cooperative Wetlands Center is initiating another three-year wetland project, led by Brooks and C. Andrew Cole, affiliate assistant professor of landscape architecture, designed to discover how wetlands function, including how wetlands change over time and how human disturbances affect their natural progression.

Team strives to make online business routine in 21st century

Sure, you can let your mouse do the shopping on the World Wide Web or you can stroll a virtual mall, but those conveniences are last week's e-news. What if you or corporate consumer could use the Web to save real time and real money? And, what if the seller could learn to serve customers so well that they would come back time after time?

Supported by an IBM grant of \$63,000, a cross-disciplinary team of researchers is trying to create a system to do just that. Plus, one part of the program may even help consumers eat more healthfully. The primary thrust, though, is to capitalize on the power of the Web and database technology to create what is being called a "21st-Century Customer Management System."

Using this system, a customer could, for example, quickly and effectively explore the features and cost tradeoffs between two types of laptop computer, then place an order without reams of order forms and paperwork. Or, a customer could call up a company Web site and, by filling out an electronic form, say, "This is my problem, what can you do for



STANLEY
AUNGST



RUSSELL
BARTON



AUDREY N.
MARETZKI



JANICE
MCCLURE



ANTHONY
VERSTRAETE



DAVID T.
WILSON

me?" Web images of the products would permit a thorough visual inspection of critical features.

At the same time, the laptop computer seller could learn about the customer's likes and dislikes, using that information to better serve the buyer in the future, speed transactions, compile preferences for new designs, and build a closer, long-term relationship between the buyer and seller.

Involved in the project are David T. Wilson, holder of the Alvin H. Clemens professorship of entrepreneurship studies, Anthony Verstraete, senior lecturer in management information systems, and Stanley Aungst,

instructor in management information systems, all with The Smeal College of Business Administration; Audrey N. Maretzki, professor of food science and nutrition, and Janice McClure, research support associate, both in the College of Agricultural Sciences; and Russell Barton, associate professor of industrial engineering, in the College of Engineering.

The goals are to reduce the steps and extraneous cost in a sales transaction, making it easier and quicker for customers to get what they want. At the same time, sellers can learn about the buying habits of their customers so they can do a better job of

delivering what they need.

Researchers are also exploring the possibility of working with a grocery chain, setting up a system whereby seniors living in a retirement community or low-income consumers in a public housing development could jointly order groceries over the Net and have deliveries made right to their home. Costs could be lowered through potential savings in delivery expenses. The Web ordering system also could be set up to display nutritional information on each product as the customer scrolls through the selections on the aisles of the electronic market. A prototype of the system is expected to be complete by June.

Quality Expo now in its fifth year

Penn State will host the Quality Expo April 17 from 11 a.m. to 3 p.m. in the ballroom of The Nittany Lion Inn. This year marks the fifth anniversary of the event, held in celebration of the University's commitment to continuous quality improvement. During its five-year history, Penn State's Quality Expo has showcased the improvement initiatives of 193 teams.

The purpose of the expo is to invite members of the University and local community to learn from each other's experiences in bringing about improvement and spurring effective organizational change.

In addition to reviewing the exhibits of 67 quality teams, visitors will be invited to participate in quality circles — workshops featuring

quality initiatives and techniques. The quality circles will be held in the inn's Fireside Lounge. Provost **John Brighton** will introduce the first presentation, "Innovation in the Classroom," at 11:15 a.m. Other quality circle presentations will highlight team-building skills and strategies for maintaining team momentum. President **Graham B. Spanier** will deliver welcoming remarks at 12:15 p.m. and attendees will be eligible to win prizes.

For a schedule of activities or more information, call (814) 863-8721, or e-mail les1@psu.edu; or visit the Expo Web site at <http://www.psu.edu/dept/president/cgi/expo97>.

Fayette welcomes business development center

The Penn State Fayette campus recently opened its doors to the Saint Vincent College Small Business Development Center. The center, located within the Continuing Education Department at Fayette, will help meet the needs of small businesses.

Working in conjunction with the Fay-Penn Economic Council, the Saint Vincent College Small Business Development Center (SBDC) is one of 950 such locations throughout the United States, Guam and Puerto Rico. The centers offer counseling, research assistance and training to small business owners on a wide variety of topics. They also are able to provide access to experts in many fields. The program at each SBDC is tailored to meet the specific needs of the community in which it

serves, and it offers no-fee consulting services to both new and existing businesses, with emphasis on the benefits of strategic business planning.

The center will provide access to more than 800 online databases containing market, financial and technical information and consultants will help clients identify both public and private sources of capital. The SBDC will work with federal, state, regional and county economic development programs to assemble financing packages for either start-up or expansion purposes.

For more information, call (412) 537-4572, or contact the Penn State Fayette Campus Continuing Education Department at (412) 430-4210.



Winter blast

This view of Old Main from the Sparks Building on the University Park campus shows more of the cold, white stuff that recently blasted the area. With the first official day of spring just around the corner (March 21), brighter days should be ahead.

Photo: Greg Grieco

Carpoolers

Carpooler wanted from Woodward any point after to University Park. Work hours are Tuesday through Friday from 7:30 a.m. to 4:30 p.m. and Saturday from 5:30 a.m. to 2:30 p.m. Contact **Kay** at (814) 865-5182 or (814) 349-5932.

Temporary vanpooler wanted for May, June and July, from Phillipsburg to University Park. Work hours are Monday through Friday 8 a.m. to 4:30 p.m. Please call **Mona** at (814) 342-6246.

For the record

In a "Penn Stater" item of Feb. 27, **Paul Carrick** was listed as a visiting professor in the Department of Humanities at the College of Medicine. His six-month term in that position expired December 31, 1996. The search for an assistant/associate dean for undergraduate education is an internal one. That information was omitted from a story on page 6 of the March 6 *Intercom*.

The appointment of **Frederick H. Gaige** to dean of Penn State Berks-Lehigh Valley College will be effective July 1. This information was omitted from a story which appeared in the March 6 issue of *Intercom*.

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Getting ready

Bruce Childs, left, and Tim Noel of Farfield Co. remove lamp posts inside the construction zone for the Pattee Library expansion. Preparations continue for the upcoming addition to the library, visible in the background. A groundbreaking ceremony to kick off the two-year construction project is planned for April 25.

Photo: Greg Grieco

University to receive \$200 million in state construction funding

The governor served up some good news for Penn State during a March 20 dinner with the Board of Trustees and President Graham B. Spanier. At the dinner, Gov. Tom Ridge announced the release of \$200 million in badly needed capital construction funds to the University over the next five years. Penn State will receive \$40 million per year, probably beginning July 1.

"The \$200 million in capital construction funds are critically needed at our 23 campuses, where we have several hundred buildings that are more than 25 years old and that require renovation and safety updating," Spanier said. "We have significant needs for funds for ADA (Americans with Disabilities Act) compliance and infrastructure improvements."

Spanier said the University will reallocate funds internally and seek private funding to add to the state's commitment. The president said a high priority will be given to academic concerns for a select number of new buildings that have already been identified as needed.

More news on the budget and other stories from the Board of Trustees can be found on pages 4-6.

See "Funds" on page 5

Task force charged to review University's research activities

By BARBARA HALE
Public Information

Rodney A. Erickson, vice president for research, has appointed a task force to evaluate issues and opportunities related to research administration and technology transfer at Penn State and to make recommendations on ways to improve the University's support structure for research activities.

The task force, which meets for the first time today, has been asked to present its report by the end of August.

Erickson cited the significant changes that have taken place in the research environment, including changes in government and industry funding priorities, the adoption of new technologies for research administration and the growing University role in technology transfer as reasons for launching the task force now.

See "Task force" on page 2

Where the rainy season never ends

By GARY W. CRAMER
University Relations

For the past decade, ever so quietly and carefully, the University Park campus has used treated wastewater generated by thousands of students and employees to foster its very own rain forest. That may sound like a hard thing to hide, yet very few people who see the forest recognize it for what it is.

While touring the Deer Pens or State Game Land No. 176 off Fox Hill Road, between the campus and the airport, anyone noticing the sprayers of the Penn State Land Treatment System is seeing

parts of the forest, as well as other land included in the project. Twenty-four hours a day, year-round, different portions of the system whoosh treated wastewater onto acres of trees, undergrowth and cropland. None of this wastewater gets discharged directly into Spring Creek.

The process recycles nearly 1 billion gallons of water each year into the regional groundwater system, which is then reused, in part, to fill the four water towers on campus. Besides recycling the water, the process adds naturally occurring nutrients in the wastewater to the soil for pick-up by the crops and forest growth.

See "Rainy" on page 2

Inside



Mark your calendar

Looking for something to do? Several lectures have been planned on a wide variety of topics. Whether you're at University Park, Mont Alto or another location, you're sure to find something of interest. For a sampling, see pages 10-12.



Research

Americans are eating less beef — and the result is a slimming down of their knowledge of how to pick the best cuts when they do indulge. For details, please see page 15.

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Task force

Continued from page 1

"It's a valuable process to think strategically about these research issues," Erickson said. "The recent transition in leadership provides an opportunity to take a fresh look at many functions and research support services, and to plan for these activities and the associated changes in the coming years."

Erickson has charged the task force to:

- identify major research funding changes likely to affect Penn State in the next few years, areas of opportunity for researchers, and the most critical priority areas for institutional investment in research and research infrastructure.

- evaluate the organizational structure of the Office of the Vice President for Research, including the Research and Technology Transfer Organization.

- evaluate the research administration and technology transfer support services (both pre-award and post-award) provided to faculty researchers, and identify improvements and additional support functions that may be necessary.

- identify mechanisms to strengthen interdisciplinary and intercollege research collaborations including an examination of current organizational structures and operations of Intercollege Research Programs.

- develop strategies to increase the "yield" of graduate student support from research funding, and explore ways to help Penn State researchers be even more competitive in what will undoubtedly be a leaner future funding environment.

Michael Reischman, associate dean for research and graduate studies, College of Engineering, and **Lynne Vernon-Feagans**, associate dean for research, College of Health and Human Development, are serving as task force co-chairs. The other members are **Cheryl Achterberg**, professor of nutrition; **Esther Brooks**, doctoral candidate in physiology; **John Dutton**, dean, College of Earth and Mineral Sciences; **Derek Elsworth**, associate professor of mining engineering; **Irwin Feller**, director, Institute for Policy Research and Evaluation; **Donna Frazier**, deputy controller; **Art Heim**, director, Industrial Research Office; **L. Raymond Hettche**, director, Applied Research Laboratory; **Ernest W. Johnson**, director, Office of Research Affairs, College of Medicine; **Robert Killoren**, director, Office of Sponsored Programs; **Raymond Lombra**, associate dean for research and graduate studies, College of the Liberal Arts; and **Robert C. Meyer**, assistant to the dean, Eberly College of Science.



Frozen rain forest

It may qualify as a rain forest, but the land near the Deer Pens off Fox Hill Road between the University Park campus and the airport still froze this winter. The area is routinely sprayed with treated wastewater.

Photo: Greg Grieco

Rainy

Continued from page 1

"Continuous use of the system since 1983 has resulted in the local groundwater levels remaining relatively stable even in the worst drought conditions of the recent past," according to **Richard Parizek**, a professor of geology who was among the earliest participants in the project and is still a member of its oversight group, the Wastewater Distribution Committee.

"By spraying no more than two inches per acre per week, the total area covered by the system receives about 100 inches per year over and above the natural rainfall — or 30 inches more than needed to qualify as a rain forest."

Owing to its uniqueness, the Land Treatment System over time became a living laboratory for many Penn State wildlife and ecosystem classes. Researchers focus on its effects on the local flora and fauna, and ongoing sampling of water quality is performed at 23 groundwater monitoring wells. All this activity is coordinated by the 14-member Wastewater Distribution Committee which includes University academicians and administrators and representatives of the State Game Commission — which owns some of the land.

"Besides being a pleasant place to hike, bike and hunt, the lands form a very complex biological system that needs to be managed closely, and that's the message the committee is trying hard to get across as we tour groups through it," said committee chairman **John Gaudip**, a utility systems engineer with the University's Office of Physical Plant. "Last year, we gave tours for the state Department of Environmental Protection, Patton Township Supervisors, Pennsylvania Association of Conservation Districts, Centre Region Planning Commission and environmental attorneys from across the state."

During the popular tours, participants learn that hard data drives every bit of fine-tuning made to the system and that challenges abound in finding ways to effectively manage the system in an environmentally sound manner. Despite obstacles, the system is highly sensitive to the diverse interests of the University's physical plant and

"By spraying no more than two inches per acre per week, the total area covered by the system receives about 100 inches per year over and above the natural rainfall — or 30 inches more than needed to qualify as a rain forest."

Richard Parizek
professor of geology

farm operations, various regulatory bodies, adjacent landowners and the Game Commission.

"There are some major hurdles to overcome," said **Les Lanyon**, associate professor of soil fertility and a committee member. "For instance, the normal growing season is out of sync with the periods of increased student activity. (Students) determine the pattern of flow in the system. One method to deal with the imbalance involves double cropping of corn in the summer and winter rye later to keep crop acreage in production as much of the year as possible."

Among the best forage species for removing nutrients from the soil is Reed Canarygrass, which can be fed to University livestock, according to **Harold Harpster**, associate professor of animal science and committee member.

Another important factor in wastewater usage is the influence of age and structure of forest vegetation on nutrient uptake.

"Studies are under way to determine if fast-growing young vegetation in recently cut forests take up nutrients faster compared to older vegetation," said **Gerald Storm**, assistant professor of wildlife science. "Preliminary data from water samples taken at one meter below the surface indicated that nitrate-nitrogen concentrations in areas with young vegetation were significantly lower than in natural forests."

Such results suggest that with the availability of young growth forests and/or croplands, the practices undertaken by Penn State could someday play a role in helping others considering or using a land treatment system.

Hundreds take advantage of free PENNTAP services

In 1996, the Pennsylvania Technical Assistance Program (PENNTAP) provided more than 800 cases of assistance to clients in all 67 counties in the state. Clients reported \$6.1 million in economic benefits as a result of this assistance, and 97 percent of them were satisfied with the help that was provided, according to Jack Gido, PENNTAP director.

In many cases, PENNTAP technical specialists use their own technical expertise to respond to clients' questions or rely on their technical librarian in a Patee Library on the University Park campus to locate information. In other instances, Penn State faculty and staff lend their expertise. In 1996, PENNTAP technical specialists made nearly 600 visits with clients and 75 presentations regarding PENNTAP services, reaching a total of 1,600 participants.

PENNTAP is a partnership between Penn State, the Pennsylvania Department of Community and Economic Development and the U.S. Economic Development Administration. Serving Pennsylvania business and industry statewide since 1965, PENNTAP is one of the nation's first technical assistance programs and has been a model for such programs in many other states and countries. PENNTAP helps Pennsylvania business and industry improve their competitive edge by providing free scientific and technological assistance and information.

More than 80 percent of PENNTAP clients in 1996 were from businesses with fewer than 100 employees.



Construction zone

The construction company Hoy and Harger of Lock Haven is installing 60 feet of 30-inch casing at the intersection of Park Avenue and Bigler Road on the University Park campus. The line is being installed for a new water system.

Photo: Greg Grieco

Search under way for dean of Eberly College

A search committee has been appointed to identify candidates for the position of dean of the Eberly College of Science. **John A. Dutton**, dean of the College of Earth and Mineral Sciences, is committee chair.

The Eberly College dean serves as principal academic leader and chief executive officer of the college and reports directly to the executive vice president and provost of the University. The dean is responsible for planning, budgeting, implementing, fund raising, and for the quality of teaching and research.

The position requires an individual who can lead effectively and manage a large and complex college in a comprehensive University setting. Candidates should have significant academic achievement in a field of study commonly included in a college of science with credentials appropriate for a tenured appointment at the rank of professor. The candidate should have a thorough familiarity with the philosophy and responsibilities of a large, research-oriented, land-grant institution. Prior experience in academic administration with responsibility for personnel programs and/or resources is required. Salary will be commensurate with experience and qualifications.

The Eberly College of Science provides instruction and research opportunities in the biological, mathematical and physical sciences and is one of 10 colleges at University Park. The college had a system-wide enrollment of 3,791 undergraduate students and 579 graduate students in Fall Semester 1996, and has eight academic departments. A full-time equivalent faculty and staff of 925 people serve at

University Park, supported by a budget of approximately \$52.7 million.

Nominations, applications and inquiries should be submitted to Dutton, chair of the search committee for the dean of the Eberly College of Science, The Pennsylvania State University, 201 Old Main, Box PSI, University Park, Pa. 16802. The search committee will review applications and nominations beginning May 1, and will continue to receive them until the position is filled. You can find more information on the Eberly College of Science on the World Wide Web at <http://www.science.psu.edu/>.

Other members of the committee are: **Abhay V. Ashtekar**, Eberly Family Chair in physics; **Augustin Banyaga**, professor of mathematics; **Joanne T. Cahill**, director of development, Eberly College of Science; **Andrew G. Clark**, professor of biology; **Frank R. Deutsch**, professor of mathematics; **Nina V. Fedoroff**, Verne M. Willaman professor of life sciences, professor of biology and director of the Biotechnology Institute; **Eric D. Feiglson**, professor of astronomy and astrophysics; **J. Gregory Ferry**, professor of biochemistry and molecular biology; **Joseph M. Friebe**, undergraduate student; **Barbara J. Garrison**, professor of chemistry; **John P. Lowe**, professor of chemistry, **Elizabeth A. McGraw**, graduate student; **Judith Ozment Payne**, associate professor of chemistry; **James L. Rosenberger**, professor and head of the Department of Statistics; and **Robert Secor**, vice provost for academic affairs and personnel. **Office of the President**, who will serve as an ex-officio member of the committee.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Staff assistants improve public broadcasting

It has been nearly two years since **Mark Estling**, general manager of Penn State Public Broadcasting, charged a CQI team of staff assistants at WPSX to analyze their work processes with the intent of improving quality and customer service. Much progress has been made since then; the team has streamlined the pledge process; offered a workshop to staff assistants that focused on processing financial documents; and addressed computer training needs. Pleased with the results of its initial efforts, the staff assistants CQI team then went on to broach broader goals.

Team members surveyed WPSX members to determine their satisfaction with programming; made arrangements to be a pilot group for HRDC courses; requested and received approval from the general manager to have input in decisions on purchasing computer hardware and software and in designing office space allocation; and established a Learning and Training Center, an area dedicated to providing library resources and learning/training activities for all WPSX employees.

Members of the team are **Rose Schwarcing**, **Tammy Hahn**, **Lois Rader**, **Belinda Tyson**, **Deborah Rogers**, **Irene Meeker**, **Martha Mensch**, **Melinda Meyers**, **Nancy Eckenroth**, **Patricia Johnson** and **Sandra Edkins**.

Other universities at Quality Expo

The fifth annual Quality Expo will be held at The Nittany Lion Inn on April 17, from 11 a.m. to 3 p.m. In addition to exhibits from 65 Penn State teams, the following universities will be visible as exhibitors or visitors: Georgetown, Syracuse, the University of Tennessee, Binghamton (exhibiting), the University of Pittsburgh, Rutgers (exhibiting) and the State System of Higher Education.

For more information about *Continuous Quality Improvement*, please contact **Louise Sandmeyer**, executive director of the Center for Quality and Planning at (814) 863-8721, or e-mail ls16@psu.edu. The center's Web site is <http://www.psu.edu/center/cqi/>.

From the Trustees Docket

Final HUB/Robeson project plans are approved

The Board of Trustees approved the final plans for a single complex that jointly will expand the Hetzel Union Building and house the new Paul Robeson Cultural Center at the University Park campus.

The board also gave authorization to receive bids and award the contracts for the project.

Designed by Williams Trebilcock Whitehead Architects of Pittsburgh, the HUB/Robeson project will add 95,000 square feet to the existing 154,000 square feet comprising the HUB.

Sitework is slated to begin in May with building construction starting in July. Completion is targeted for the beginning of fall semester 1999.

The design calls for a linear addition, running from the west end of the HUB and ending in the middle of the south wall of the Penn State Bookstore, preserving nearly all of the HUB lawn area. Near the bookstore, the new Robeson Center will be integrated into the complex, but bear a distinctive identity, using an oval-shaped element.



A glimpse of the future

This is an artist's conception of the inside of the renovated Hetzel Union Building

The heavily used Pollock Road entrance will become more pedestrian-friendly with larger walkway space and a welcoming canopy extending over the entrance. As people enter that entrance, they will see a lobby with significantly more open space and a wide staircase leading down to the ground floor.

The first floor will house a new auditorium, seating 425, additional meeting rooms and the new Paul Robeson Cultural Center. The center is three stories, matching the bookstore level, ground floor level and first floor level. Also on the ground floor, there will be new HUB Eateries dining areas and general seating areas

for eating and studying, as well as a recreation center.

A new four-story atrium space with skylights will connect the addition to the existing building. The exterior of the entire project will be constructed of brick veneer, glass and precast stone, matching the existing HUB's brick veneer, stone-like trim and window curtain walls.

The project also calls for dedicated quiet study lounges, information and computer services, improved access for users with disabilities, art gallery space and an expanded ballroom.

The total construction budget is \$26.8 million. The project will be financed with funds generated by a portion of University Park student activity fees, private support, Housing and Food Services and University funds.

A public forum will be held Thursday, April 17, from 12:30 to 1:30 p.m. in the HUB Gallery Lounge, and the groundbreaking ceremony is scheduled for May 2.

There are more than 425 registered student organizations at University Park, with at least 100 of them expected to have or seek office space in the new HUB or Robeson Center.

Construction slated for Behrend, Beaver campuses

The Board of Trustees approved the appointment of an architect for two new residence halls at Penn State Erie, The Behrend College, and the reconfiguration and expansion of a parking lot for the growing campus community.

The trustees also were informed of renovations to the Food Service Building at the Penn State Beaver campus, which are part of an ongoing series of upgrades to dining facilities at various Penn State campuses and colleges.

For Penn State Erie, the firm of Hoffman Popovich Architects and Associates of Boalsburg will design the two new 200-bed residence halls following the same general plan used for Almy Hall, currently under construction at the campus and also designed by Hoffman Popovich. Almy Hall is scheduled for completion this summer, with the next new unit planned for occupancy in the fall of 1999, followed by the last unit two years later to create a village encompassing all three units.

The parking lot project at Erie, designed by the University's Office of Physical Plant, will convert and enlarge an existing 141-space lot near the main campus entrance into a 406-space facility at a total cost of \$862,500. A pedestrian walkway from the lot

will be created by closing the existing drive to the Reed Building student center to vehicular traffic. A new driveway to the existing Reed Building parking lot will be located opposite the entrance to the redesigned lot; walkways will link the two lots.

At Penn State Beaver during the summer, an entrance vestibule will be added to the east side of the Food Service Building, as well as a 50-seat special events dining room, a market-place-style food court, an outdoor patio dining area, offices for Housing and Food Service staff and a connecting corridor to the Study-Learning Center for a total addition of 4,200 square feet. Architect for the project is Burt Hill Kosar Rittelmann of Butler, with planning assistance from a design team of campus students, faculty and staff.

In the past six years, six of the eight Penn State locations with dining facilities managed by the University's Housing and Food Services — not counting those at the University Park campus — have had similar upgrades to better meet the needs of their users. After the Beaver campus work, the Penn State McKeesport campus will be the final location in this category under consideration for upgrades.

Board adopts revised campus names

A resolution to modify the names of Penn State's campuses was adopted by the University's Board of Trustees on March 21. The changes reflect the locations' newly designated status as colleges and the University's plan for the Commonwealth campuses.

The approved plan for the Commonwealth Educational System designates 14 of Penn State's 17 locations as locations authorized to offer baccalaureate degrees. The plan will not add any new campuses, but makes four-year degree programs more available to place-bound students currently enrolled at Penn State campuses.

Penn State Abington and Penn State Altoona will join Penn State Erie, The Behrend College, in becoming independent four-year colleges. The names of the other campuses will indicate their affiliation as members of either the Commonwealth, Berks-Lehigh Valley or Capital college systems.

Effective July 1, those locations will be named:

- Penn State Abington, Abington College
- Penn State Altoona, Altoona College
- Penn State Beaver, Commonwealth College

- Penn State Erie, Behrend College
- Penn State Berks, Berks-Lehigh Valley College
- Penn State Lehigh Valley, Berks-Lehigh Valley College
- Penn State Harrisburg, Capital College
- Penn State Schuylkill, Capital College
- Penn State Delaware County, Commonwealth College
- Penn State DuBois, Commonwealth College
- Penn State Fayette, Commonwealth College
- Penn State Hazleton, Commonwealth College
- Penn State McKeesport, Commonwealth College
- Penn State Mont Alto, Commonwealth College
- Penn State New Kensington, Commonwealth College
- Penn State Worthington Scranton, Commonwealth College
- Penn State Shenango, Commonwealth College
- Penn State Wilkes-Barre, Commonwealth College
- Penn State York, Commonwealth College

From the Trustees Docket

State releases \$13.1 million in capital funding

Gov. Tom Ridge has released \$13.1 million in capital funding for projects at three University Park facilities to make them more accessible for people with disabilities.

■ \$8 million for the first phase of improvements to 15 University Park facilities to make them more accessible for people with disabilities.

■ \$1.4 million to replace an aged steam distribution system at the Harrisburg campus in Middletown.

■ \$3.7 million for construction of a bio-medical technology center at the Fayette campus in Uniontown. The project will include classrooms, clinical learning laboratories and basic science laboratories. This represents a collaborative effort involving Uniontown Hospital, Penn State and the Commonwealth to begin a nursing degree program at the campus.

Funds

continued from page 1

Ridge also announced March 21 that he released \$13.1 million for construction projects at several University locations. (See story above.) Spanier expressed his gratitude toward the governor for releasing the funds and recognizing "the important role that Penn State plays in the future of the Commonwealth."

"This partnership between Penn State and the Commonwealth will greatly enhance education for our students," Spanier said. "It will facilitate our programs of world-class leadership in research and it will support our service mission."

In addition, Spanier said the project would not only create jobs for Pennsylvanians, but would contribute to the local economy in the many communities where Penn State campuses are located and some of these new facilities will be built. The announcement of the five-year funding from the state will allow the University to better plan for the future. University leaders are expected to move quickly to update Penn State's project priority list.

Hershey, Geisinger move forward, are on schedule for July merger

Much progress has been made since the proposed merger of The Hershey Medical Center and Geisinger was announced Jan. 17, including the naming of new program leadership. The chief executive officers of both Hershey and Geisinger reviewed that progress during the Board of Trustees meeting in Hershey March 21.

Dr. C. McCollister Everts, CEO, senior vice president for health affairs and dean of the College of Medicine at Hershey, and Dr. Stuart Heydt, CEO of Geisinger, said that merger planning and activities were progressing on schedule and that, to date, the regulatory process was proceeding smoothly.

Since January, several series of meetings with employees have been conducted by management at both institutions to address employees' concerns and answer their questions regarding benefits, clinical services and structure of the new organization. Many meetings have been held with faculty members throughout both institutions as well.

Pending approval of the merger, the Penn State Geisinger Health System has identified leadership to direct the newly combined and evolving clinical programs and oversee the distribution of clinical resources to serve the health needs of a regional population. Nine divisions and their directors have been identified: alcohol/chemical dependency, James Dougherty, Geisinger; community medicine, Dr. James M.

PENN STATE



Geisinger Health System

Herman, Hershey; laboratory medicine and pathology, Dr. Conrad Schuerch III, Geisinger; medicine, Dr. Robert E. Albertini, Geisinger; obstetrics and gynecology, Dr. Joanna M. Cain, Hershey; pediatrics, Dr. Ronald L. Poland, Hershey; psychiatry, Dr. Stephen J. Paolucci, Geisinger; radiology, Dr. John E. Madewell, Hershey; and surgery, Dr. Thomas M. Krummel, Hershey.

Associate division directors have been named for medicine, pediatrics, and surgery because of their size and complexity. They are, medicine, Dr. Herbert Y. Reynolds, Hershey; pediatrics, Dr. Richard A. Molteni, Geisinger; and surgery, Dr. Jerry R. Youkey, Geisinger. In addition, planning teams for several clinical areas and their leadership have been named: anesthesia, Dr. Julien F. Biebuyck, Hershey, and Dr. John B. Houston, Geisinger; ophthalmology, Dr. Stuart H. Goldberg, Hershey, and Dr. Robert G. Notz, Geisinger; and orthopedics, Dr. Vincent D. Pellegrini Jr., Hershey, and Dr. Gary L. Wolfgang, Geisinger.

A full-time, eight-member core transition team consisting of employees from both Hershey and Geisinger

has been formed to review operations at Hershey and Geisinger and make recommendations for cooperation and collaboration following the merger. The core team members are Lynn Miller, Suzanne Noll, Ed Winne and Marilyn Spunar, alternate, Hershey; and Mark Bucksbaum, Elaine Glimm, Jim Landon and Annie Beisswanger, alternate, Geisinger. In addition, a number of transition design teams representing employment areas from throughout both institutions are reviewing operations in their respective areas and planning for future collaboration.

Division directors and associate division directors, planning teams, core transition teams and transition design teams have all begun to meet regularly and will continue to do so over the next several months. Likewise, meetings will continue to be held and emerging information will be shared with employees of Hershey and Geisinger in the months to come.

Everts and Heydt are confident that formalization of the new entity, the Penn State Geisinger Health System, will be effective July 1.

Spanier to press for adequate state funding

House and Senate appropriations committee members expressed praise and support for Penn State and its 1997-98 state appropriations request at recent committee hearings. But the committees also displayed "a general lack of will" to fund higher education in Pennsylvania at necessary levels, President Graham B. Spanier told the Board of Trustees March 21.

"We will continue to work to reverse this posture," Spanier said.

The University is seeking an appropriation of \$305 million — 8.6 percent more than last year — to continue adequately serving students and the state and to keep tuition as affordable as possible. Without adequate state support, Spanier has said, tuition could rise more than the planned 2.9 percent.

In early February, Gov. Tom Ridge's office announced a proposed 2 percent increase for Pennsylvania's public universities. Penn State officials were appreciative of the increase, but noted that the slight boost would not be enough to cover some of the University's

"Our primary responsibility is the education of our students, developed in a framework that promotes character, conscience and citizenship."

President Graham B. Spanier

ty's most critical needs.

Spanier said the appropriation request, approved by the trustees in September 1996, includes "only the most basic elements to sustain ourselves in an environment of profound change. I made clear (to the legislators) that above all else, teaching remains the heart of Penn State, as reflected in our highest funding priority for the coming year: 50 new faculty positions."

Academics will always be first at Penn State, Spanier emphasized both before the board last week and earlier this year at the budget hearings. "Our

primary responsibility is the education of our students, developed in a framework that promotes character, conscience and citizenship," Spanier told the board.

"My principal message to the General Assembly was that Penn State is delivering on its promise to become the leading university in America in the integration of teaching, research and service," Spanier said. "At the same time, I explained that we are greatly challenged in fulfilling our mission and preserving our tradition of access and excellence by a state appropriation that has declined 6.6 percent since 1991-92 when adjusted for inflation."

Adding the 50 new faculty positions is part of a three-year plan that will be accomplished through state support and internal reallocations from administrative expenditures. Other high priorities for Penn State are cooperative extension, increased support for the University libraries and information technology, medical education and agricultural research.

From the Trustees Docket

Room and board rates approved for 1997-98

The Board of Trustees approved room and board rates for fall semester 1997 and rental charges at the University Manor, the student housing complex at The Hershey Medical Center. The new rates go into effect July 1.

The 1997-98 room and board charges for an undergraduate student living in a standard double room will increase by \$45 from \$985 to \$1,030 a semester and the charge for Meal Plan 3, the standard plan which provides 12 to 13 meals a week, will increase by \$35 from \$1,100 to \$1,135 a semester.

Overall, the average room and board charge for the 1997-98 academic year will total \$4,330, an increase of \$160 (or 3.8 percent) over the 1996-97 room and board rate of \$4,170 per year.

Graduate residence hall rates for a standard double room at University Park without a meal plan will be \$1,185 a semester. The rate for a double room with a meal plan is \$1,070 a semester plus meal charges from \$1,035 to \$1,290, depending on the meal plan chosen.

Rental costs for Graduate Circle Apartments will be \$415 a month for a one-bedroom unit and \$485 for a two-bedroom unit, while Eastview Apartments will be \$325 a month for a one-bedroom apartment and \$395 for a two-bedroom unit.

Graduate and undergraduate students have several housing and meal options to choose from, ranging from single rooms to six-person apartments and from Meal Plan 1 to Meal Plan 6, depending on the number of meals selected.

At Penn State Erie, The Behrend College, apartment rates for a semester will increase \$60 a semester to \$1,285 a person for a two-bedroom garden apartment for four students and \$1,205 for a three-person apartment.

At Penn State Harrisburg, Meade Heights Apartments will range from \$1,285 to \$1,450 a semester, depending on occupancy.

At The Hershey Medical Center, the cost of renting one of the 24 one-bedroom apartments in University Manor East will increase by \$14 from \$516 to \$530 a month. Rents for the 164 two-bedroom apartments will increase by \$14 from \$612 to \$626 a month; the 44 two-bedroom apartments with washers and dryers will increase by \$14 from \$656 to \$670; and the 16 three-bedroom apartments will increase by \$20 from \$672 to \$692.

The 31 four-bedroom furnished apartments in Hershey's University Manor West complex will increase by \$32 from \$1,168 to \$1,200 a month.



Mealtime

Undergraduate and graduate students will see modest increases in room and board rates for the 1997-98 academic year.

Photo: Greg Grieco

New building to enhance outreach for The Hershey Medical Center

In a move to increase its efforts at meeting the health-care needs of the community, The Hershey Medical Center will shortly begin construction of a new building on Cherry Drive in Hershey. The 52,121-square-foot building will house the Center for Women's Health, general internal medicine, radiology, and pediatrics practices, a blood donor center and a community resource room. It also will house the Senior Citizens Center of the Hershey Area.

A groundbreaking ceremony will be held at the Cherry Drive site on April 6.

Dr. **Herbert Y. Reynolds**, chair of the Department of Medicine, emphasized recently that efforts will be made to accommodate people's wishes, such as more flexibility in nighttime and weekend hours, comprehensive, one-stop services covering a number of health needs; and a greater emphasis on what he calls "the educational component."

In addressing the need for the Center for Women's Health, Dr. **Joanna Cain**, chair of the Department of Obstetrics and Gynecology, said, "At the Penn State Center for Women's Health, our goal is clear: to become the clinical, educational and research resource of choice for all the women of central Pennsylvania and their health providers. As we enter the 21st century, we believe now is the

time to move forward with this important endeavor, providing both urban and rural women of all ages with the specialized, excellent health care they need for the future."

Among the services to be provided at the women's health center are family-centered obstetrics, obstetrical genetic counseling and high-risk pregnancy care, well breast care, nutrition and weight management, family planning, adolescent health, and healthy lifestyles and stress management.

The Department of Radiology's services will include mammography, ultrasound and stereotactic biopsy, and x-rays. The blood donor center and phlebotomy services will be located on the first floor with their own entrance and parking facilities for the convenience of donors.

Commenting on the coexistence of the senior citizens center and medical center services in the new building, Dr. **C. McCollister Everts**, chief executive officer, senior vice president for health affairs and dean of the College of Medicine, said, "We are delighted that we will be together in this new facility. The senior citizens center has always had a wonderful commitment to the community. Together, we can offer the community much more than we could ever provide alone."

Ballot positions announced for upcoming trustee election

Ballot positions for the 1997 election of trustees by alumni have been determined by a drawing, a procedure established by the Board of Trustees.

Paula R. Ammerman, associate secretary of the board, conducted the drawing and said ballots for the trustee election will be mailed to alumni by April 10. All ballots must be returned to the trustees office by the close of the election at 9 a.m. Thursday, May 15.

The names of the candidates for three positions on the board to be elected by alumni, and the order in which they will appear on the ballot, are as follows:

- **David R. Jones**, '54, assistant managing editor, The New York Times, New York, N.Y.
- **Ben Novak**, '65, attorney, Novak, Stover & Furst, State College.
- **Thomas V. Falkie**, '56, '58, '61, president/natural resources, Berwind Property Group Inc., Philadelphia.
- **Anne Riley**, '64, '75g, English teacher, State College Area High School, State College.
- **John W. Gibb**, '70, '72g, managing director of investment banking, Education Securities Inc., Washington, D.C.
- **Robert L. Horst**, '58, consultant, Peak Productivity USA, Lancaster.
- **Louis G. Galliker**, '56, president, Galliker Dairy Co., Johnstown.
- **Donald M. Cook Jr.**, '52, '60g, retired president of SEM-COR Inc., Indianapolis, Fla.
- **Stephen M. Hladik**, '89, attorney, Caplan and Luber, Paoi.

Faculty/Staff Alerts

On the road again

Spaces are still available for new faculty to take part in President **Graham B. Spanier's** second annual bus trip to sites around the Commonwealth.

The trip, dubbed the Road Scholars Travel Seminar, is scheduled for May 12-13. Two buses of faculty hired within the past two years will travel to different points across the state to illustrate Penn State's vast reach and to show how Penn State faculty are touching the lives of residents.

To sign up or get more information on the trip, contact **Melissa DeLong** at (814) 863-5117 or e-mail to msw7@cde.psu.edu.

Spanier introduced the travel seminar last year and approximately 70 faculty from various Penn State locations filled the two buses.

Library workshops

The University Libraries are offering the following series of seminars during April to help library users learn more about the growing number of databases accessible through the Library Information Access System (LIAS) and on CD-ROM.

In an effort to accommodate as many participants as possible, some sessions are offered more than once. To register or learn more about the seminars, send an e-mail to signup@psulias.psu.edu. If you have any additional questions, contact **Doris Herr** at (814) 863-0325. Information on the seminars also can be found by typing **HELP WORKSHOP** when using LIAS or on the Libraries' Web site at <http://www.libraries.psu.edu>.

■ Engineering databases

April 1 from 6 to 8 p.m., Tower Room 402, Central Pattee Library

■ Congress and the Legislative Process on the Internet

General introduction to electronic resources related to the lawmaking activities of Congress. Included are resources for tracking bills and laws and the legislative process; April 2 from 8:30 - 10 a.m., Tower Room 402, Central Pattee Library

Open house

The Eberly College of Science will hold its annual open house for prospective students and their parents from 10 a.m. to 4 p.m. Saturday, April 5, in 133 White Building at University Park.

Representatives from each of the college's departments and programs, financial aid officers and staff members from housing, food services and many other Penn State and local offices will be on hand to answer questions.

Nominations sought

The Staff Focus Committee serves as an advisory group to the University and is currently seeking nominations for members. Its membership includes

exempt staff and non-exempt staff from throughout the University system. Members are appointed to serve three-year terms.

Nominations, including self-nominations, from staff of the University at all locations are welcome. The Staff Focus Committee values diversity in its membership and is actively seeking a broad base of nominations.

Nomination forms or additional information may be obtained from **Carol Griffin** at (814) 863-6188 or cjg3@psu.edu. Nomination deadline is April 18.

Warning about letter scam

University Police are investigating four suspicious letters which have been sent to Penn State department heads, the first of which was received during Fall Semester. These letters, which are associated with the Nigerian Petroleum Corporation (NNPC), are believed to be an attempt at theft by deception. The authors, who request bank account information by fax, propose "participatory financial transactions," in which investors can make money.

Police Services believes this is not a legitimate business transaction and are warning people not to provide account information to these individuals. The U.S. Postal Service is aware of this letter. If you have received any such correspondence from NNPC on the University Park campus, please contact Police Services at (814) 863-1111, or the Pennsylvania Attorney General's Office, Bureau of Consumer Protection at (814) 949-7900. If you received correspondence elsewhere, please contact the Bureau of Consumer Protection directly.

Accuracy of five-digit ZIP codes

If you do "Standard A" bulk mailings, the five-digit ZIP codes must be verified. This is a United States postal regulation which will be fully implemented on July 1. The U.S. Postal Service asks that we comply with this regulation before the full implementation date. Please call either **Beth Catherman** at (814) 865-0761, or **Gregg J. Asciutto** at (814) 863-8153 to verify.

Online resource for administrative computing

A new Web site to serve administrative computing users is in place. Called Administrative Information Systems (AIS), it replaces the existing OAS site. The AIS site includes many sections, such as an overview of IBIS and the technological tools required; systems access and security information; instructions for printing documents from the mainframe; available support services; information on Executive Information Systems and how to use it; a description and link to the Penn State Data Warehouse — which provides quick, easy access to large amounts of current and historical data for analytical and reporting purposes; and more. Useful software also is available for downloading from this site.

The URL is <http://www.oas.psu.edu/>.

Behrend works with Erie steel firm on computer software project to help bids

Erie Forge and Steel and the Ben Franklin Technology Center at Penn State Erie, The Behrend College, have combined to fund the development of new computer software that will increase the speed, accuracy and consistency of Erie Forge and Steel's job bidding process. The software will be created by the Center for Process Manufacturing, a program jointly sponsored by Penn State-Behrend's School of Business and the American Production and Inventory Control Society (APICS).

Erie Forge and Steel has been an employee-

owned company since 1990. In addition to providing products for the forging industry and steel service centers, it makes custom-shaped forgings for commercial and military industries.

"Erie Forge and Steel's future depends upon accurate estimates of job costs," said **Robert Whiting**, director of marketing for the company. "This new software will phenomenally improve the consistency and accuracy of bidding, and it will permit engineers, and in some cases salesmen in the field, to provide job quotes almost immediately. It will allow

Research Web site for student affairs

The Office of Student Affairs has established a Web site to disseminate information about current research projects. Found at URL <http://cac.psu.edu/~cxh25/sauev/sa.html> and then by clicking on "Student Affairs Research and Assessment," the site provides access to results of Penn State Pulse telephone surveys which run the gamut from computer experience, health interests of students and student activity funding, to student affairs services. In addition, data from the Class of 2000 also is posted. Anyone interested in being notified of new postings appearing at this Web site may join the SARA-L@psu.edu listserve also found at the site.

Policies online

The policies in Penn State's Policy Manual have taken on a new colorful look on the World Wide Web at URL http://guru.sp.psu.edu/policies/pol_menu.html. In addition to a "new look," the human resource policies have been returned to it. The policy search function will now include human resource policies in the search. The general public also can access human resource policies at the location <http://www.hr.psu.edu/policy/default.htm>.

Policy updates

Information pertaining to the use of the Penn State Purchasing Card recently has been added to the "Purchasing" tab of the Central Offices' manual in GURU at URL <http://guru.sp.psu.edu/central/centmenu.html>. The documentation contains frequently asked questions, Purchasing Card allowable receipts and other related information and links.

MOC reminders

Any full-time faculty, staff or student considering the purchase of a computer or software program should check with the Microcomputer Order Center in 12 Willard Building on the University Park campus, telephone (814) 865-2100. As a non-profit service of Penn State, the MOC offers low, academic prices on a full range of hardware and software.

For the latest in product and pricing information, visit the MOC Web page at <http://www.moc.psu.edu>. The page has recently been updated to include more comprehensive product information and additional price lists.

Stop smoking

The American Cancer Society's Fresh Start Smoking Cessation Program teaches participants how to deal with smoking as a chemical addiction, a habit and a psychological dependency. Meets April 7, 9, 14 and 16, from 12:30-2 p.m. in 125 Reber Building on the University Park campus. Cost: none. To register, contact **Jan Hawbaker** at (814) 865-3085 or JQH34@PSU.EDU.

the company to increase its bidding productivity and to significantly enhance service to our customers."

The Center for Process Manufacturing, one of Penn State-Behrend's nine advanced technology centers, works toward the advancement of knowledge relating to process-oriented planning and control systems. The Center for Process Manufacturing assists its industrial affiliates, such as Erie Forge and Steel, by creating, applying and disseminating knowledge related to process-oriented manufacturing.

The ARTS

AT PENN STATE



On display

This untitled work by American artist Ann Hamilton, part of the Palmer Museum of Art's permanent collection, is currently on view in the museum's Pincus Gallery of Contemporary Art. The museum, on Curlin Road near the Creamery on the University Park campus, is open Tuesday through Saturday 10 a.m. to 4:30 p.m.; Sunday, noon to 4 p.m. For more information, call (814) 865-7672.

Odyssey Through Literature

On the next episode of Odyssey Through Literature, Leonard Rubenstein discusses the history of Madagascar with Pier Larson of the Penn State history department. Larson explains that in Madagascar there is no distinction between story and history. The stories passed down from generation to generation are treated as accurate, yet different descent groups tell different versions of history during ceremonies centering around competition in public storytelling. Such competitions lead Rubenstein and Larson to discuss how history is influenced by the historian researching it.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WPSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://muckey.la.psu.edu/comp/lit/odyssey/aduscd.htm>.

Celebrating diversity

The College of Arts and Architecture will host its inaugural Celebration of Diversity in the Arts on Wednesday, April 2.

The day of celebration is designed to bring faculty, students, staff and the art community together to enjoy the work of artists that espouse multicultural concepts and encourage unity among artists and people of all walks of life. The college plans to make this an annual event.

The celebration will consist of three art exhibitions, a featured speaker, special tours of the Palmer Museum of Art, a major recital in the School of Music and several smaller performances throughout the day.

Three art exhibitions of work by minority faculty and students, as well as non-minority artists whose work focuses on multicultural issues, will be on display in the main lobby of Music Building I, the lobby of the Arts Building and in the conference room in Patterson Building.

The Palmer Museum will feature the works of several artists from outside the community whose works represent multicultural approaches to creativity. The museum staff will provide two special tours of work by Saar, Lorenzen and others on April 2, starting at 2 and 4 p.m. The featured speaker, Anthony Leach, will talk at 2:30

p.m. in the Palmer Lipcon Auditorium, on the topic "Sharing All The Colors Within Us."

A 7:30 p.m. recital will conclude the day's events. The recital, in the School of Music Recital Hall, will include performances by faculty and students from the School of Music.

Bach's Lunch

The Penn State Horn Ensemble, directed by Lisa O. Bontrager, associate professor of music, will perform at the free Bach's Lunch concert at 12:10 p.m. Thursday, April 3, in the Helen Eakin Eisenhower Chapel on the University Park campus. The 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

The Horn Ensemble consists of 16 French horns and one tuba. Most of the players are majors in the School of Music.

Recital features Brahms

Violinist James Lyon, performing as Joseph Joachim, and pianist Marylene Dosse, performing as Clara Schumann, will present the three sonatas for violin and piano by Johannes Brahms at 8 p.m. Thursday, April 3, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

This date marks the 100-year anniversary of the romantic composer's death. Dosse is professor of music and Lyon is an associate professor of music. The concert is free to the public.

Trumpet recital on April 5

Susan Bachman will present her senior trumpet recital at 8 p.m. Saturday, April 5, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus. The concert is free to the public.

"A Lion In Winter"

Penn State's University Resident Theatre Company will present James Goldman's dark comedy "A Lion In Winter" from Friday, April 4, through Saturday, April 12, in the Pavilion Theatre on the University Park campus.

It's Christmas of 1183 and the Plantagenets have retreated to their traditional form of family mirth: backstabbing, trickery and verbal assaults. King Henry II, Eleanor and sons merge to celebrate amidst a battle to decide who will be the successor to Henry's throne.

"The Lion in Winter" is directed by Christine Wilson, an MFA candidate in the School of Theatre Arts.

For tickets, call the Arts Ticket Center at (814) 863-0255.



BRYCE JORDAN CENTER

Christian music featured on April 28

Steven Curtis Chapman, contemporary Christian music's top selling artist, with special guests audio adrenaline and Carolyn Arends will perform at 7:30 p.m. on April 28 at The Bryce Jordan Center on the University Park campus. Tickets are \$20/\$24.50 for reserved seating by calling (814) 863-1812.

Chapman's hit singles include "His Eyes," "The Great Adventure" and "What Kind of Joy."

Circus coming in May

The Royal Hanneford Circus will perform four shows at The Bryce Jordan Center on May 3-4. Show times are 2 and 7 p.m. each day. Tickets are \$13/\$11 for adults and \$11/\$9 for children 12 and under. All seats are reserved. Group rates are available by calling (814) 863-1812.

No Doubt returns May 6

No Doubt, comprised of vocalist Gwen Stefani, bassist Tony Kanal, guitarist Tom Dumont and drummer Adrian Young, will perform with special guests Civ and The Vandals at 7:30 p.m. Tuesday, May 6, at The Bryce Jordan Center. Tickets are \$21.50 for reserved seating.

The band, influenced by new wave, guitar-rock, ska, dance, reggae, pop and even show tunes, opened for Bush last April at the Jordan Center.

Upcoming events

- March 29: Kiss, 7:30 p.m. Tickets: \$40 and \$28.50 for reserved seating.
- March 30: Phil Collins, 8 p.m. Tickets: \$45 and \$28.50 for reserved seating.
- April 1-2: Sesame Street Live "Let's Be Friends," April 1 at 7 p.m.; tickets: \$8.50. April 2 at 10:30 a.m. and 7 p.m.; tickets: \$13.50, \$11.50 adults; \$12, \$10 children (1-10).
- April 4: Garth Brooks, 8 p.m. Tickets: \$18. (SOLD OUT)
- April 19: World Wrestling Federation, 8 p.m. Tickets: \$18, \$14 and \$10.

Tickets for all shows may be purchased at the Jordan Ticket Center, Eisenhower Auditorium South Box Office, selected Uni-Mart ticket outlets, Commonwealth campus ticket outlets, or by calling (814) 865-5555 locally, or toll-free at (800) 863-3336.

For more information on Jordan Center events, visit the Web at <http://www.bjc.psu.edu>

Beyond the Classroom Walls

PENN STATE
ide
INNOVATIONS IN DISTANCE EDUCATION

A SPECIAL INSERT TO THE PENN STATE INTERCOM

innovations in Distance Education (IDE) was launched in 1995 with a grant from the AT&T Foundation. The project is a major initiative to help faculty at Penn State and the historically black Lincoln and Cheney universities create a supportive institutional culture in which the possibilities of distance education can be realized.

There are two project components: a Faculty Initiative and Policy Symposia.

Faculty Initiative

This aspect of IDE involves representative faculty from Penn State's academic colleges, and institutional partners Cheyney and Lincoln, each of whom is working on a distance education project. The Faculty Initiative's culminating work is a set of faculty-determined guiding principles and practices for quality distance education based on the professional development and course development experiences gained by the faculty members during the project. Thus far, the IDE faculty and staff are concentrating on six categories within which principles and practices are being developed. These categories include Learning Outcomes, Interactions and Learning, Use of Instructional Media and Tools, Social Relationships and Learning, Assessment and Measurement, and Learner Support Systems and Services.

Because Penn State is hosting the 18th World Conference of the International Council for Distance Education, June 2-6, 1997, IDE participants have a unique opportunity to share their experiences and outcomes with an international audience, as well as with university colleagues. On May 30, IDE faculty will present a day-long preconference: "Innovations in Distance Education: Principles and Practices from a Faculty Perspective." Penn State faculty interested in distance education are encouraged to register for the preconference by calling 1-800-PSU-TODAY.

Policy Symposia

The second major component of IDE is the annual Policy Symposium. It provides a forum

innovations continued on page 3

Rockin' on into the future

"Whether a course is taught in a classroom or from a distance, the instructor has to make the material interesting, clearly important to the students, and worth their time and effort," according to William J. Kelly, associate professor of Theatre and Integrative Arts. "My work in distance education has, so far, focused on finding ways of doing that in a digital environment and doing it as well, if not better, than I can in a classroom."

Kelly is designing a distance education version of INART 115, *The Popular Arts in America: Popular Music*, a course currently offered at University Park to almost 800 students each semester. "Part of the impetus to move into distance is simple supply and demand. I have substantially more requests for enrollment in this course than can be accommodated by resident instruction," he said. "Distance offers the opportunity to expand access to the course and, hopefully, improve the learning environment for students who wish to take it."

Kelly and his IDE team are preparing a demonstration module that focuses on Elvis Presley as an example of how such a course could be taught at a distance. Kelly has written an interactive text, and he and his team have created a variety of support materials and services, including comprehensive digital discographies, study tools and feedback mechanisms.

"What we're aiming at, ultimately, is a hybrid CD-ROM with dedicated Internet linkages," Kelly said. "The CD-ROM gives us speed, high-quality graphics and audio, and a solid platform to work from. The Internet linkages give us flexibility and the ability to expand the interactive capabilities of the course."

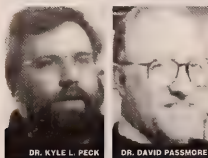
Elvis Presley was chosen as a focus for the module, Kelly said, because "he was such an important figure in the development of popular music and because there is a wealth of information and material available on him, which makes our job

Rockin' continued on page 4



WILLIAM J. KELLY

College of Education faculty lead state effort to educate and train 100,000+ teachers



DR. KYLE L. PECK

DR. DAVID PASSMORE

Two College of Education faculty members are heading a statewide effort to educate, train and support more than 100,000 teachers and education professionals in using computer technologies to improve the effectiveness of education in

Pennsylvania schools.

Dr. Kyle L. Peck, associate professor of education, and Dr. David L. Passmore, professor of education, are creating a set of learning experiences and tools for more than 100,000 Pennsylvania K-12 teachers and 4,500 school board members, principals and counselors. These materials are for the professional development component of Gov. Tom Ridge's Link to Learn program. The faculty members are working on Link to Learn in conjunction with the Innovations in Distance Education (IDE) project at Penn State.

Link to Learn will connect all

Pennsylvania schools, colleges, universities (public and private) and libraries to a high-speed voice, video and data network called the Pennsylvania Education Network (PEN).

Peck, Passmore and their IDE team are developing education materials to assist teachers and education professionals in using computer network technologies to tap the resources of the Internet for the benefit of students in grades K-12. They will use asynchronous courses delivered on the Web, chat rooms, E-mail, World Wide Web pages, forums, databases and sound and video

technologies as part of the project, as well as create some materials on CD-ROMs and other media for off-network use. Asynchronous courses will allow teachers and education professionals to learn at their own pace and in locations of their choosing.

The faculty members selected these distance education technologies to meet the needs of teachers, who are busy people, Peck said. Passmore added these technologies also will help them handle the instructional load for large numbers of teachers enrolling in the same course. As many as 10,000 teachers could be

connected to the Internet and ready to enroll in courses when the first is launched this summer, Passmore said.

Peck said one of their goals is to use technology to create small communities of learners who can talk with each other about what they are reading and seeing and give each other feedback about their progress. An assessment of the target audience for these materials shows that educators have different levels of knowledge and experience. As a result, they will move through the courses at different rates.

Faculty lead continued on page 2

Quotes from Distance Education Policy Symposium participants



JUDITH A.W. THOMAS

The symposium offered the opportunity for interaction and pushing out about the state of the art in distance education at other institutions. Our institutions will benefit from the recommendations made here and the policy issues it discussed. The symposium offers the opportunity for a new level of interaction over present policy and takes a look at the role Lincoln University can play in distance education.

Judith A.W. Thomas
Professor and Chair of the
Department of Education
Lincoln University



ELAINE DIDIER

The symposium provided an opportunity to think more broadly about student issues related to distance education and how we can maintain distance education as part of the array of learning opportunities we offer both on and off campus.

Elaine Didier
Director of Residential and Research
University Programs, Academic
Oquirrh
University of Michigan



CAROLYN Y. WOO

The symposium has been extremely helpful in getting at the more subtle shades of policy issues so that we can distinguish between how policy can help and how it can obstruct.

Carolyn Y. Woo
Associate Executive Vice President
for Academic Affairs
Purdue University



KENNETH LOONEY

It's always very beneficial to attend symposiums such as this one at Penn State. I can go back to my home institution and share this experience from the symposium with my colleagues.

Kenneth Looney
Dean of Extended Education
Tennessee State University

Participating Institutions: University of Illinois at Urbana-Champaign, Georgia State College, Georgia Southern University, Indiana University East, Lincoln University, Michigan State University, North Carolina Central University, Ohio State University, Penn State Harrisburg, Tennessee State University, and the University of Wisconsin-Madison. About 150 faculty, students, and administrators from 15 institutions participated.



DR. MARY FRANCES PICCIAO WITH GLENN JOHNSON, WHO
DESIGNED THE WEB SITE'S ANIMATION, AND NUTRITION
GRADUATE STUDENT AMY MACKAY

Web site enhances classroom learning

"Good instruction is good instruction, regardless of the medium," said Dr. Mary Frances Picciano, who is directing the development of a Web site for Nutrition 251, Introductory Principles of Nutrition.

She acknowledges that this project has challenged some of her assumptions: "I first envisioned this as a distance education version of the class here. But when I got into it, I saw that a Web site can enhance classroom instruction as well."

For example, animations can demonstrate dynamic processes more effectively than textbook illustrations, noted Picciano, professor of nutrition in the College of Health and Human Development. "Visual aspects are really enhanced on the Web," she said. "In the textbook, there's a photo of a bomb calorimeter (used to measure potential food energy). But on the Web, we have animation that actually shows the steps in determining energy content—it can show that fat gives more energy than protein or carbohydrates. A lot of concepts are better taught by animation."

Right now, Nutrition 251 is offered in three sections per semester to about 1,500 students at University Park and other Penn State campuses. It's also one of the 20 highest-enrollment distance education courses, offered as an Independent Learning course with printed materials. Picciano hopes it will be available on the Web this summer or fall.

University Park students already are using the Web site as a supplement to classroom instruction. The address is <http://cac.psu.edu/projects/nutrition/>.

They find lecture notes and links to related information and sites such as the American Dietetic Association and the American Academy of Pediatrics. "It's a neat way of providing background information," Picciano said.

Project Director Gary Miller on Creating a New Learning Environment

At an international meeting of distance education leaders sponsored by the International Council for Open and Distance Education, John Samuel of the South African Ministry of Education described a challenge that faces his colleagues from around the world. "It is not enough," he said, "that we use technology to increase access to education. We must also ask ourselves what we will do with that increased access. We must create a new learning environment if we are to be successful in the long run."

Around the globe, technology is changing the way we work and the way we play. It is changing how we use information and making lifelong learning a necessity almost every walk of life. In the process, it is moving distance education—our ability to meet the changing needs of learners wherever they may be—into the mainstream of our academic community.

Penn State's 1992 Task Force on Distance Education addressed this need directly. One of its recommendations was that the University create an environment that would allow distance education to move into the mainstream of the University's academic life.

Innovations in Distance Education is making an important contribution to that goal. This three-year University-wide effort, now in its second year, has been supported by \$500,000 in grants from the ATRF Foundation.

Learning continued on page 4

Another advantage, she said, for residential as well as distance instruction, is the self-paced nature of a Web site. "If you have a learner who works at a slower pace, you can accommodate that." It also helps to accommodate different learning styles, she said.

Students also can share information and questions, discuss E-mail and chat rooms. But this poses its own set of issues, Picciano cautions: "We're going to have to establish a protocol for electronic media, policies and procedures for appropriate kinds of interactions. Just opening chat rooms to promote student-to-student learning isn't enough; it has to be monitored carefully and constantly evaluated to combat misinformation."

Picciano said development of the Web site has "caused me to dissect and analyze the practices and procedures of graduate and undergraduate education." The project also has required intensive teamwork and technical support, she said. And, there's a certain vulnerability in making one's course materials so accessible: "You have to learn to be open to critical evaluation from peers and students. You can try different things, if they're not working, try others—same as in a lecture," she said.

"We shouldn't think of distance education as a substitute, we have to think of it as another type of student-instructor interaction," Picciano said. "I think there's a false impression about distance education—once a correspondence course was written, interaction was minimal. But with a Web-based course, interaction is actually greater."

Picciano will hold a workshop May 16 at Penn State for all Nutrition 251 instructors to acquaint them with the history and design of the Web site, as well as give them hands-on practice.

Faculty lead (continued)

"We will allow teachers to form groups dynamically," Passmore explained. They will have opportunities to practice and demonstrate that they can perform the activities in the course. They will post some of their work on the Web, where other teachers who enroll in the course at a later date will be able to review this work and provide feedback to the teachers who created it."

Passmore said research shows that learners who are given appropriate guidelines can provide valuable feedback to other learners.

Handling large numbers of students with different educational needs will be a challenge—whether the courses are developed for resident instruction or distance delivery. Peck said he will

use the same tools for creating these professional development courses that he uses for developing resident instruction courses. The only difference between the two kinds of courses is in how students talk to one another.

Passmore said another consideration involved in developing courses using a variety of technologies is time. Development time for a traditional resident instruction course, for example, could average about 100 hours for every hour of instruction delivered, compared with 300 to 400 hours of development for every hour of instruction for a multimedia course.

"A substantial amount of time goes into designing and developing a multimedia course,"

Passmore said, "but the multimedia course has the potential to serve a lot more students."

As they create the framework for these professional development modules, they are carefully focusing on what is needed to deliver education to large numbers of teachers.

Peck said, "The hallmark of good education is having important things happen in the minds of students. Our job is to give them something thought-provoking and an opportunity to reach this information."

He also envisions assessing student learning in new ways. Instead of evaluating student performance by assigning a letter grade (A, B, C), he would like to work with students to help them

master key course objectives; then award them credit for the course. He sees this as a win-win method of assessing learning for instructor and student.

Working on the project is providing both faculty members with opportunities to discuss their ideas, such as new ways to assess learning, with Penn State colleagues and other experts around the state.

The result will be the creation of a new distance education model that can be used to educate any number of students at the same time. The model can then be adapted for other audiences, including the more than two million teachers nationwide, as well as teachers worldwide. Peck said.

Physics students embrace cyber quizzes

A year ago, Dr. Mazural Huq had no access to the Internet. Today, as a result of his IDE involvement, he is moving toward a long-term goal of helping his colleagues develop instructional design skills and using the Web to introduce distance education at Lincoln University.

An associate professor of physics, Huq is taking the first steps by integrating a Web site into a residential version of a two-semester calculus-based physics course at Lincoln.

"It has been a real learning experience for me," he said, "developing graphics, everything pretty much on my own."

Students can log onto the site, at <http://aux.lincoln.edu/departments/physics/> to supplement classroom instruction at Lincoln, about 30 miles southwest of Philadelphia.

"One of the most important elements is the multiple-choice quizzes on the Web," Huq said. "Students can take these and get immediate feedback on their performance."

Eventually, Huq hopes to offer the quizzes for credit and keep track of grades via the Internet.

The 40 students are so enthusiastic, he said, that if he announces in class that he hasn't had time to post the latest round of materials on the Web, he gets audible groans of disappointment.

He plans a more formal evaluation of the Web site with a questionnaire at the end of the course. "It will ask students about their access to the Internet, the number of times a week they get online, what they've found most useful on the site and whether they think it has helped to improve their grade."

He sees the Web as a great tool for introducing distance education at Lincoln. One of the first steps will be to design a template that professors could use to put quizzes on the Web. "It could be adapted to any subject, really," he said.

For Huq, who is teaching Physics 104 for the sixth year, IDE "has opened up my horizon. It's helped me see how I can improve in the classroom. I'm learning so much; I'm really excited about the whole thing. I have shared his project at a brown-bag lunch for other faculty members and is planning a workshop at which professors could get this information on distance education as well as hands-on Web experience."

Concerns that faculty members have expressed about adopting distance education, he said, are the time involved to get comfortable with the technology and other aspects. Supportive administration is crucial, he said. "Number one is faculty evaluation—how does it count toward tenure?" Also, he added, "We have to make sure the technology is in place to support it."



DR. MAZURAL HUQ

Libraries to extend resources to students at a distance

LIAS, the Library Information Access System, currently extends access to the University Libraries' online catalog to anyone with a computer and a modem. Now the Libraries is extending its resources further to serve distant learners.

Carol Wright, associate librarian, and Elizabeth Walker, information technology associate, are partnering with Dr. R. Shannon Duval to develop instructional modules to support students enrolled in STS 101, Science, Technology and Human Values. As part of the Innovations in Distance Education (IDE) project, Wright and Walker are creating a library Web site to be integrated with the Web site being designed for the STS course. Duval, assistant professor of science, technology and society, is developing the interdisciplinary Web-based course for resident and distance delivery.

Science, Technology and Human Values explores the intersection of science and technology with questions of human values and investigates contemporary moral issues involving science and technology. One class project requires students to select a product they use everyday and investigate issues surrounding its production, consumption and impact on the environment. To complete the project, students need to use a wide range of

resources, including library databases, print information resources and Internet resources.

More than simply linking to various Web sites, Wright explained, the goal of the Libraries' IDE project is to "instruct students in the selection and use of appropriate databases and resources, to teach students principles of electronic database searching and to evaluate the suitability and reliability of the information retrieved."

The overload of information available in print, on library databases and on the Internet complicates rather than simplifies the task of retrieving appropriate information, she said, noting that this instructional challenge is magnified in the distance learning environment.

Walker and Wright are examining authoring packages and Java scripting software which allow the creation of interactive instructional modules, such as concept mapping, self-study quizzes and database simulation. Because of the interdisciplinary nature of the STS course, the modules will be generalizable for other courses.

Walker, who has been working with adult learners for more than seven years, said, "There is a myth that in-class instruction is better than instruction at a distance. I've done both kinds of

instruction and found that quality learning results when learners are involved and are interacting with each other and with the instructor." She added that a quality instructor is one who can meet a student at his/her level and guide their learning path.

Wright observed that faculty are excited about working in an electronic information environment and are endorsed about the



DR. PHILIP COCHRAN WITH INSTRUCTIONAL DESIGNER ANGEL HERNANDEZ

The differences are blurring

Dr. Philip Cochran, associate professor in The Smear College of Business Administration, is working with more than 20 other faculty and staff members to create and revise materials for the print and electronic versions of BA 243, Social, Legal and Ethical Environment of Business.

"We're trying to partner with a publisher to produce a multimedia product," he said. "It might be on CD-ROM or on the World Wide Web—or both. This is a whole new approach."

Cochran said the needs and expectations of such a project are dramatically different from producing a textbook, which primarily involves an author and publisher. "Distance education really has to be an integrated effort; it requires a lot of technical support." In The Smear College, the Center for Instructional Technology is involved, for example, to provide computer and other technical support. We are also working closely with corporate partners, including Agupenn and IBM to add real world examples of the principles that we are teaching.

Adding to the complexity is the role of BA 243 in the Business Administration curriculum. BA 243 is designed to provide 40 of 180 modules in an integrated core curriculum, so progress in this class is linked to that in five other courses.

One advantage of this integration, Cochran said, is, "If this works for this course, I feel it could easily be extended to the other five courses—Management Information Systems 204 and Business Administration 301, 302, 303 and 304."

Cochran also sees the materials used for the distance education version easily fitting into a more conventional classroom setting.

"It really doesn't matter if it's residential or distance," he said. "The differences are blurring, and I think they will continue to fade and probably, eventually, they will disappear."

An interesting comparison of residential vs. distance learning, he says, might be to make attendance in an on-campus class optional, with all class materials available in alternative forms. "It

would be interesting; it would allow us to really test it with the same student body," he said.

Increasingly, both residential and distance education demand keeping abreast of the latest developments in a field, Cochran said. "I remember taking classes in which the newest book or article on a reading list was maybe 20 years old," he said. "That can't happen anymore; we have to stay current and bring in real-world examples as they occur. Teaching is becoming a 'just in time' activity."

Ivan Cochran's residential instruction has an element of self-paced learning with interactive materials, he noted. If a student finds a particular concept difficult to understand, Cochran can create Web links to related topics and fuller explanations without slowing down the rest of the class.

As for his own professional development, Cochran said his participation in IDE has "forced me to really think about teaching and learning issues. Moving in a new mode makes you rethink the class—what students should be learning and how. It gives you a different perspective on something you've been doing for a long time."

He says that traditionally it was difficult to devote much time to distance education since it was strictly an additional task on top of a faculty member's normal teaching load. He suggests that if the administration would account for distance education courses as part of the base teaching load, rather than an additional duty, faculty members would give a substantially more attention.

Cochran says President Graham Spanier's commitment to distance education helps make it an integral part of Penn State. "That kind of leadership helps enormously," he said.

"If we're going to move from thinking of college as being for 18- to 21-year-olds to making it a lifelong experience, we have to offer education in this fashion. We can't expect 30- to 40-year-olds to drop what they're doing and return to campus for a year."

Innovations (continued)

for leaders in distance education from members of the CIC and several historically Black institutions to share perspectives and solutions for overcoming barriers to mainstreaming distance delivery into higher education. Symposia in 1995 and 1996 focused on institutional issues and the faculty's pivotal role in distance education. A third symposium to be held during the 1997-98 academic year will address institutional support and policy issues related to curricula and learners.

"A major outcome of the Policy Symposia," said Deborah Kleivens, IDE project manager, "will be a comprehensive policy document that will provide model policy statements addressing each of the three areas for policy development we're considering: administrative issues, faculty roles, and curriculum design and learner support issues." "What we hope to have when we're done is a document we will be able to share with other institutions that are grappling with how to integrate distance delivery into their institutions' mission."

Kleivens said, "We also will have created a network among land-grant and historically Black institutions of people who are on the forefront of the effort to mainstream distance education."



CAROL WRIGHT



ELIZABETH WALKER

Resources continued on page 4

Hard-wired for learning

Dr. Joan S. Thomson credits her participation in IDE with raising her awareness of the opportunities that communications technologies provide for distance education courses.

"I have learned about the technology infrastructure supporting this kind of project through professional development activities I have attended as part of the IDE project," said Thomson, an associate professor of rural sociology.

"Penn State has done a superb job of providing the infrastructure. I have also learned to appreciate the team approach to develop a course. You need a tremendous amount of expertise from many disciplines and a great deal of time to develop a course for distance delivery," she said.

Thomson is creating a Web site where freshman agricultural sciences majors and others interested in food and fiber systems can explore the education options available at Penn State. She is developing an introductory seminar, "Be a Master Student!" (Ag 150) for distance delivery, as well as for resident students' use.

"With more and more College of Agriculture Sciences freshmen beginning their undergraduate experience at a Penn State campus (other than University Park), there is an increasing need for the Be a Master Student seminar," Thomson said. "The seminar is also designed to help students make the transition into the higher-education community and to broaden their perspectives and horizons."

Besides developing the Web site, Thomson said, she is designing an instructor's guide to help instructors incorporate activities and learning experiences on the Web into the seminar curriculum. Such integration is an important facet of helping colleges deal with the changing expectations of students, both on and off campus in the future, she said.

She and her IDE project team are using communications technologies to make it possible for students and their seminar instructors to access the Web resources anytime and from any location equipped with a computer and modem.

In working on the project, Thomson said she finds the same teaching and learning goals apply whether the seminar is to be delivered as resident instruction or at a distance.



DR. JOAN S. THOMSON

"It's important that students learn to solve problems, think critically and use the educational resources available to them both inside and outside the classroom," she noted.

How this learning is achieved is up to the senior college faculty members who learn teach the seminar, she added. In a survey of seminar instructors conducted last fall, she found there is no consensus on the issues and perspectives that need to be

shared with students; however, there is agreement that incoming students have a limited view of the food and fiber system and the career options open to them. Faculty members suggested that a new set of resources be created to supplement those currently available.

Thomson also is concerned about students' computer literacy and the availability of computer equipment. In a separate survey of students enrolled in the seminar last fall, she found that almost all had opened their University E-mail accounts, but only about half have their own personal computers. As a result, most used University computer labs to access the Web.

"We need to ask ourselves how sophisticated we should make the Web site if students have to rely on a lab to access it," Thomson said.

She will start collecting answers to this and other Web usage questions next fall, using a prototype evaluation tool now in development.

As students become more computer literate and use their own computers on campus, at home and work to connect with the University, they will demand that more resources be available electronically, she added.

"Administratively, there is strong support for distance education at Penn State to meet this growing demand," she said.

Thomson plans to share the insights and experiences she has acquired redesigning the freshman seminar with College of Agricultural Sciences faculty members who teach the seminar. She also is writing about her IDE project in professional journals and making presentations.

Rockin' (continued)

in building the example a bit easier." But the primary reason that Kelly decided on Elvis is more personal: "I think that Elvis occupies a unique and special place in our history. As a recording artist, he towers above the competition. In 1952 his sales passed the one billion mark which will likely never be equaled. But more important, he has become a figure of truly mythic proportions who persists in our culture despite the fact that he has been dead for almost twenty years... if, of course, you accept the fact that he actually died."

Kelly uses popular music, especially rock and roll, as an important part of our cultural heritage. "Popular music gives us a wonderful insight into our past and a remarkable means of charting our progress as a people," he said. "As history, it tells the story of all of us—rich and poor, black and white, successful and failed. And it tells it in all of our particular voices so that we can get a sense of what the variety of our experience was and heard that experience honestly and unfiltered. The music also tells us what our experience felt like, and through it we capture the feelings that others had."

"I think that popular music is also one of our greatest cultural gifts to the rest of the world; our music has become everyone's music. So, as an educator, I think that it's important to know where that music came from, how it grew and developed, and, most important, how it changed and helped to shape our lives."

The most profound effect that his exploration of distance education has had on Kelly's perception of education has been "to make me think more about resident instruction and to consider it in ways that have been rather surprising. Like most faculty, I thought that teaching was resident instruction, but it isn't anymore. Some things work better in a face-to-face learning situation and some things don't. Things also work differently for individual students. What's important, I think, is to make sure that we offer our students the best learning environment for their needs, regardless of whether that is a resident or a distance environment."

Kelly is also interested in the lifelong learning opportunities that distance education provides. "In 10 or 15 years, people of my generation are going to begin their retirements, and many are going to see going back to school as an important part of their post-working lives," he said, "not for degrees or to acquire job skills, but for the sheer joy and pleasure of learning. And they'll want to do this at home. Part of what I want to work on is developing and designing those learning opportunities for the future."



GARY MILLER
ASSISTANT VICE PRESIDENT FOR
DISTANCE EDUCATION AND
IDE PROJECT DIRECTOR

Learning (continued)

Much of this funding has been used to provide faculty with opportunities to work with colleagues across disciplines and at other institutions to reflect on their own work in distance education and, together, to identify key principles and practices that contribute to successful course development in distance education.

IDE faculty represent all academic colleges. They represent a broad range of interests and expertise. Some are working on courses that will be offered off campus through the Department of Distance Education. Others are involved in inter-campus courses delivery or are experimenting with the use of distance education media and methods in their on-campus courses. These faculty—along with colleagues from Cheyney University and Lincoln University—have become a team, working together to define the elements that will best help faculty enhance Penn State's learning environment for students both on campus and worldwide.

Resources (continued)

possibilities of incorporating it in their teaching. Students, too, are receptive to the remote user environment, access to remote databases and instructional modules are examples of how the distinctions between resident/remote students are being blurred.

To determine the effectiveness of their project, Wright and Walker plan to evaluate how students use the online instruction and resources, as well as how the integrated approach with the STS class supports the instructor in meeting class goals and objectives.

Participating in the IDE project is helping Walker in her role as the Libraries' trainer for microcomputer systems.

"Working on the IDE project is giving me insights that I can use in developing training for Libraries' faculty and staff at all Penn State locations," Walker said.

Both Wright and Walker agreed that the Libraries' faculty and staff are on the cutting edge of the movement to share information resources on the Web. They noted people want to access information from remote locations, and the same advances in technology that are fueling efforts and agencies for distance education initiatives are applicable to libraries, as well.

Professionals, students to share spotlight

Dr. Craig Bernerke, associate professor of Architectural Engineering estimates that as few as 10 percent of the 10,000-plus lighting professionals have formal education in illumination engineering. Many are missing the fundamentals of lighting design, he said.

Through his IDE project, Bernerke is developing materials for an interactive video presentation and is negotiating a contract with a remote site for AE 451, Basic Theory of Building Illumination. He hopes to offer the course during the fall 1997 semester. Students at a remote site in New York City (where many lighting designers work) will participate with a University Park class via a live, two-way audio-visual system.

It will be a two-way street not only in the sense that students in the classroom and those at the remote site will see and hear one another, but also that resident students and off-campus professionals will interact and learn from one another.

There has been some interest in offering a concentrated version of the course to practicing professionals in Omaha, Nebraska, through a joint effort with the University of Nebraska.



DR. CRAIG BERNERKE

WORLD WIDE WEB SITES

Explore the possibilities of distance education at Penn State and learn more about the Innovations in Distance Education (IDE) project by visiting the following World Wide Web sites:

IDE project
for more information and a list of IDE participants
<http://www.cde.psu.edu/de/ide/>

Penn State Distance Education
<http://www.cde.psu.edu/DE/>

Continuing and Distance Education
<http://www.cde.psu.edu>

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, March 28

Palmer Museum of Art, 2 p.m., Christoffers Lobby Gallery Talk presents Catherine Ciferri on "American Watercolors at the Palmer Museum."

Saturday, March 29

School of Music, 8 p.m., Recital Hall. Student Recital presents Nina Soisson, cello.

Monday, March 31

School of Music, 8 p.m., Recital Hall. Student Recital presents Kristen Lunetta, voice, and Tom White, piano.

Tuesday, April 1

School of Music, 8 p.m., Recital Hall. Student Recital presents Joshua Gray, clarinet.

School of Music, 8 p.m., 122 Music II. Graduate lecture/recital with Jason Byrnes, tuba.

Wednesday, April 2

School of Music, 2:30 p.m., Palmer Lipson Auditorium. Anthony Leach on "Celebration of Diversity in the Arts."

School of Music, 7:30 p.m., Recital Hall. "Celebration of Diversity in the Arts Recital."

Thursday, April 3

School of Music, 8 p.m., Recital Hall. Faculty Recital presents James Lyon, violin.

Friday, April 4

Kern Graduate Commons, noon, Kern. Concert titled "K Jazz" Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "A Thousand and One Nights." For tickets, phone (814) 863-0255

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "The Lion in Winter" by James Goldman, directed by Christine Wilson, through April 12. For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. David Buechner, "Yamaha Concert Artist."

Saturday, April 5

Palmer Museum of Art, 11:30 a.m., Christoffers Lobby. Gallery talk presents Katherine Bentz on "Italian Baroque Painting at the Palmer Museum."

School of Music, 2 p.m., Recital Hall. Student Recital presents Matt Alcora, trumpet, and Courtney Mundy, piano.

School of Music, 5 p.m., Recital Hall. Student Recital presents Kris Laird, tuba/euphonium

School of Music, 8 p.m., Recital Hall. Student Recital presents Susan Bachman, trumpet

Sunday, April 6

United Soul Ensemble, 5 p.m., Eisenhower Auditorium. "United With Praise."

School of Music, 8 p.m., Recital Hall. "Composer's Concert."

SEMINARS

Friday, March 28

Biology, 2:30 p.m., 8 Mueller Lab. Philip Benfey on "Radical Patterning and Cell Expansion in the Arabidopsis Root."

Computer Science and Engineering, 4 p.m., 302 Pond Laboratory. Kishor S. Trivedi on "Reliability Modeling: Tools and Techniques."

Monday, March 31

Agricultural and Biological Engineering, 12:20 p.m., 101 Agricultural Sciences and Industries. Janie Fouke on "Integrating Biology and Engineering."



Setting up

Ann Shields, left, and Ann Donovan work in the Hetzel Union Building Formal Gallery on the University Park campus to hang an exhibit by artist Howard Brooks. The gallery will feature a mixed media exhibit of Brooks' work through May 4

Photo: Greg Gineco

Gravity Center, 2 p.m., 339 Davey Laboratory. Roger Penrose on "How to Co-Patch a Right-Handed Graviton."

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. D. Yung on "High Performance Fortran and Java Compilers"

Tuesday, April 1

Biology, 4 p.m., 8 Mueller Laboratory. Steven Beer on "Peculiar Pathogen Protein Prevents Plant Pathogenesis." Geoscience, 4 p.m., 112 Walker. Lee Kump on "Glaciation in the Ordovician Greenhouse."

Wednesday, April 2

Gerontology Center, 12:15 to 1:15, The Living Center, 110 Henderson. Linda S. Noelker on "Stress and Job Satisfaction Among Nursing Assistants Caring for Residents with Dementia."

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. David W. Lee on "Evolutionary Engineering in Plants of the Tropic Rain Forest Understory."

Thursday, April 3

Plant Physiology and the Biotechnology Institute, 2:30 to 3:30 p.m., 112 Buckhout. David Galbraith on "Exploring the Plant Cell and its Genome Through Expression of Foreign Proteins."

Physics, 3:30 p.m., 101 Osmond Laboratory. Robert Hilborn on "Experimental Tests of the Spin Statistics Theorem." Food Science, 4 p.m., 117 Bond Laboratory. John Lord on "Overview of St. Joseph's Food Marketing Program." Communications, 4 to 5 p.m. Interactive satellite teleconference with John Riggs on "How to Build a Media Empire: A Tiger by the Tail."

The Center for Ethics and Religious Affairs, 7:30 p.m., Paul Robeson Cultural Center. Cheryl Townsend Gibson presents The 13th Annual Martin Luther King Jr. Memorial Lecture

Civil and Environmental Engineering, 7:30 p.m., Applied Research Laboratory Auditorium. Alan G. Davenport on "Why Worry About Natural Disasters?" Landscape Architecture, 8 p.m., Colonial Room, The Nittany Lion Inn. Carol Johnson on "Variety in Landscape Architecture"

Friday, April 4

Physics, 2:30 p.m., 55 Osmond Laboratory. Tania Slawicki on "Shear-Induced Structures in Aqueous Micellar Surfactant Solutions"

Biology, 2:30 p.m., 8 Mueller Laboratory. Richard Amasino on "Regulation of Flowering and Senescence in Arabidopsis." Physics, 4 p.m., 55 Osmond Laboratory. Tania Slawicki on "Doing Small Angle Neutron Scattering at NIST: Working in a Scientific Melting Pot."

Philosophy, 4 p.m., The Nittany Lion Inn. Drucilla Cornell on "Freedom for Women?"

Waynick Lecture Series, 8 p.m., 112 Walker. Charles L. Hostler on "Fifty-Five Years of Progress in Meteorology and a Look at the Future"

CONFERENCES

Monday, March 31

President's Commission on Racial/Ethnic Diversity, The Nittany Lion Inn. "Diversity—Beyond Awareness and Education."

Tuesday, April 1

The Nittany Lion Inn. Pennsylvania Poultry Sales and Service to hold conference, through April 2

Friday, April 4

"Communication in the Middle Ages," The Nittany Lion Inn, through April 5

Saturday, April 5

Communications, 9 a.m. to 4:30 p.m., Thomas Building. Sally Jackson on "Teaching and Learning with Technology Symposium."

EXHIBITS

HUB Art Alley Panels

Oil and print exhibit by Amy Jane Whitney and Darren R. Grier, through May 4

HUB Browsing Gallery

"Photographs of Australia" by Richard Woodard, through April 27

HUB Formal Gallery

Mixed media works by Howard Brooks, through May 4

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21

Kern Exhibition Area

Photographic work of David Orsillo, through April 6

North Halls

Paintings by Judi Ruffner, through April 30.

Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18

"Recent Gifts and Acquisitions: Works on Paper," through June 15

Zoller Gallery

School of Visual Arts. "MFA Thesis Exhibitions," drawing/painting by Thomas Birken, through April 15

Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>

LECTURES

Bryce Jordan to speak about improving trust

Former Penn State President **Bryce Jordan** is scheduled to be the next speaker on Wednesday, April 16, at The Nittany Lion Inn as part of the Penn State Forum, a speaker series sponsored by the Faculty Staff Club and the Penn State Bookstore. Jordan will discuss "Maintaining and Improving Public Trust: A Challenge for Our Universities."



BRYCE JORDAN



made by mail or by stopping by the Faculty Staff Club office at 110 HUB. Departments may reserve a 10-person table; tickets also will be

on sale at the door.

On May 9, **Ralph Gomory** of the Sloan Foundation is expected to speak. For more information on either event, call (814) 865-7590.

Symposium focus is teaching and learning with technology

Sally Jackson, director of the Communication Collaboratory and acting head of communication at the University of Arizona, will be the keynote speaker for the April 5 "Teaching and Learning with Technology Symposium" at University Park.

This year's fifth annual symposium, which will be held from 9 a.m. to 4:30 p.m. in the Joab L. Thomas Building, will provide a forum for sharing ideas and experiences in using technology for University-level instruction. At the University of Arizona, the Communication Collaboratory is a networked classroom in the Department of Communications that also houses a variety of research and development projects related to communication technology — especially

POLIS (Project On-Line Instructional Support), a unique resource for collaborative learning.

Jackson's address will focus on sharing with Penn State the planning, design and development of POLIS and how online resources contribute to improved teaching. POLIS is both an online instructional resource for students and an online support tool for instructors. To register, please contact **Jean Cowher** at ajc@psu.edu or (814) 863-4356. You also can register via the World Wide Web at <http://hawaii.psu.edu>. Click on "Computing," then choose "Seminars," then choose "Seminars Schedule."

Anyone with questions about the symposium can call **Karen Peters** at (814) 863-7763.

Talk discusses security on the Internet

Colleges, universities and corporations are all concerned about security and the Internet. A computer security group recently conducted a survey which reported three-quarters of the 563 U.S. corporations, government agencies, financial institutions and universities which responded reported suffering financial losses in the last year due to computer security breaches.

An April 16 noon presentation at the Penn State Downtown Center in

Harrisburg will focus on whether information and businesses can ensure safety and security on the Internet. The presenter, **Andrew Walls**, is the technology coordinator for the Commonwealth Educational System and was formerly employed in the software development industry. He holds an MBA from the University of North Carolina-Chapel Hill.

The lecture is free. For information or a reservation, call the Downtown Center at (717) 783-0433.

Change and challenge discussed at Mont Alto

Penn State Mont Alto campus announces its spring series of Campus Theme speakers. This year's theme is "Change and Challenge: Mont Alto and Beyond." All lectures are free to the public. The next lecture in the series will be Thursday, April 3, at 7:30 p.m. **Paul Finkleman**, a historian and author of the University of Miami, addresses "Challenge of Equality: Race Relations in the 21st Century" in the Auditorium, General Studies Building.

For information on this and any other events in the series, call (717) 749-6234.

April 4 lecture challenges equality concept

Drucilla Cornell, professor of law, women's studies and political science at Rutgers University School of Law, will present "Freedom for Women?" as the 1997 Dotterer Lecture, an annual event of the philosophy department.

The lecture — sponsored as a memorial by the family of distinguished philosophy Professor **Ray H. Dotterer** — takes place at 4 p.m. Friday, April 4, at The Nittany Lion Inn on the University Park campus. This lecture challenges the concept of equality between men and women that has been pursued by feminism during the past 30 years and forms part of a forthcoming book *Fragile Freedom: Re-thinking Sex and Equality*.

The lecture and the reception that follows are free to the public.

Business issues talk views a local firm going global

The Current Issues in Business Lecture Series sponsored by the Penn State Harrisburg School of Business Administration continues April 8 with a presentation by **C. Powell Adams** of AMP Inc.

Adams, who holds an MBA from Penn State Harrisburg and who will become the Sara Lodge professor of management at Elizabethtown College in the fall, will focus his noon presentation at the Penn State Harrisburg Eastgate Center on "A Harrisburg Firm Goes Global: Some Observations and Issues."

The one-hour presentation is free to the public. For information or a reservation, call the Eastgate Center at (717) 772-3590.

Learn about carbon during April 10 talk

Linda E. Jones, associate professor of ceramic engineering and sciences at the New York State College of Ceramics, will present "The Performance and Applications of Carbon: A Structural Perspective" from 3 to 4 p.m. on Thursday, April 10, in room C213 of the Coal Utilization Laboratory on the University Park campus.

Jones will discuss how carbon, in all its forms, has been linked to human history and technology, but despite this, its performance and properties are often misunderstood. Carbon is found in everything from eyeliner to diamonds, car tires to rocket nozzles. Carbon is interstellar dust and in people.

This lecture is part of the 1996 George D. Grafflin Lecture Series sponsored by the American Carbon Society and the School of Ceramic Engineering and Sciences at the New York State College of Ceramics.

Refreshments will be served at 2:30 p.m. in the foyer of C213.

Continuing education program deals with trauma

The Department of Nursing at The Hershey Medical Center will sponsor a continuing education program titled "Trauma Impact: Blood, Brain & Body," on Sunday and Monday, April 13 and 14. The program is designed to provide practical information to pre-hospital personnel, nurses and physicians involved in caring for trauma patients. Final registration and lectures will be held from 5:30 to 7:30 p.m. on Sunday, and 7:30 a.m. to 4:30 p.m. on Monday.

The fee for the two-day program is \$110 and includes handout materials, break refreshments and lunch. Enrollment is limited and pre-registration is requested by March 28. For more information, contact the office of Continuing Education at (717) 531-6483.

Presenters rebut assertions made in The Bell Curve

After becoming a *New York Times* bestseller, *The Bell Curve* drew a great deal of national and international attention. A Penn State Harrisburg Eastgate Center presentation at noon on April 30 will examine the publication and its implications.

The featured presenters, **Joe Kincheloe** and **Shirley Steinberg**, editors of *Measured Lies — The Bell Curve Examined*, will reveal what they claim is inaccurate and skewed data in the book. The presenters will discuss the implications of the book's racist message and what accounts for the positive reaction to it.

The presentation is free to the public, but registration is necessary to ensure adequate seating. For information or registration, call (717) 772-3590.

More Lectures

Bracken series ends with talk on variety in landscaping

Carol R. Johnson, chairman and president of Carol R. Johnson Associates Inc., Cambridge, Mass., and 1996-97 Bracken Fellow, will conclude this year's John R. Bracken Lecture Series. The lecture, "Variety in Landscape Architecture," is scheduled for 8 p.m. Thursday, April 3, in the Colonial Room at the Nittany Lion Inn on the University Park campus. The Bracken Lecture Series is sponsored by the Department of Landscape Architecture of the College of Arts and Architecture.

For the past 37 years, Johnson has maintained a diversified professional practice in the areas of landscape architecture and site planning. The firm specializes in site development,

open space and recreation planning, master planning and urban development for municipalities, schools, colleges and universities, corporations and public agencies.

Under Johnson's supervision, firm design projects have received a number of design awards. Johnson received her bachelor of arts from Wellesley College and attended Harvard University, where she received her master's in landscape architecture. Between 1966 and 1973, Johnson taught at the Harvard University Graduate School of Design.

A reception and the presentation of the Bracken medal will be held after the lecture. The lecture is free to the public.

Teleconference to focus on building media empires

John Rigas, president, chair and CEO of Adelphi Cable Communications Inc., will present "How to Build a Media Empire: A Tiger by the Tail," a free interactive satellite teleconference, at 4 p.m. Thursday, April 3.

This hour-long satellite teleconference, sponsored by the James R. and Barbara R. Palmer Chair through the College of Communications' Catalyst Center for Information Technologies, allows participants from colleges across the country to ask questions via an 800 number.

For more information, please contact **Pamela Czaplak** at (814) 865-1875 or e-mail her at pcj2@gmail.psu.edu.



JOHN RIGAS

Computing seminars offered for free this month at University Park campus

The Institute for High Performance Computing Applications is offering a free seminar every week during spring semester on the University Park Campus. The following seminars are for April. All seminars listed, unless otherwise noted, will be held in Room 215 Hammond Building from 3:35 to 4:25 p.m.

— **April 7: Farid Abraham**, IBM, will discuss "Cracking a Tough Nut with a Big Computer: Studying Materials Failure using Millions of Atoms."

— **April 14: Luigi Martinelli**, professor of aerospace engineering at Princeton University, will talk on "Numerical Simulation of Viscous

Flow for Aerodynamic Analysis and Design."

— **April 21: Jeff Nucciarone** from the Center for Aerodynamic Computing at Penn State and **Yusuf Ozyoruk** from aerospace engineering will discuss "High Performance Fortran: Status and Future;" and

— **April 28: Gita Talmadge**, professor of mechanical engineering at Penn State, will give a talk on "The Effects of Magnetic Fields on Electrically Conducting Fluids: An Introduction for Terrestrial Applications."

For a full listing of seminars planned, visit the institute's Web site at <http://cac.psu.edu/~lnl/ilpca/spring97/ent.html>.

Speaker to talk about blending biology and engineering

Janie Fouke is the invited speaker on "Integrating Biology and Engineering" at the Agricultural and Biological Engineering Seminar beginning at 12:20 p.m. Monday, March 31, in 101 ASI Building on the University Park campus. Fouke is director of the Bioengineering and Environmental System Division of the National Science Foundation. She is currently on leave to the NSF from Case Western Reserve University where she has been on the faculty in the Department of Biomedical Engineering since 1981. She recently served her second term as president of the IEEE/Engineering in Medicine and Biology Section, the largest professional society of bioengineers in the world.

Fouke will discuss the promises, problems and pathways of integrating biology into engineering curricula. In addition, she will discuss and interpret the trends she has seen during her tenure at NSF.

Domestic violence is topic of April 3 talk

Elizabeth M. Schneider, professor of law at Brooklyn Law School, will speak about "Gender and the Law: The Problem of Domestic Violence" at 7 p.m. Thursday, April 3, at Penn State Erie, The Behrend College. Her presentation, which continues the Feminist Scholars Speaker Series, will be held in the Reed Union Building Lecture Hall.

Schneider, who also is a visiting professor of law at Harvard Law School, has written and lectured on civil rights, women's rights and violence against women. She has co-authored a law school casebook on domestic violence, and is writing a book on violence against women and feminist legal theory for Harvard University Press. Her presentation is free to the public. For more information call (814) 898-6108.

Professor emeritus to speak on meteorology

Charles L. Hostler will be the speaker for the 1997 Arthur H. Waynick Lecture at 8 p.m. Friday, April 4, in 112 Walker Building on the University Park campus. Hostler is professor emeritus of meteorology, senior vice president for research emeritus and dean emeritus of the Graduate School. The topic of his public lecture is "Fifty-Five Years of Progress in Meteorology and a Look at the Future."

The lecture will focus upon the dramatic increase in the accuracy of weather predictions during the last 50 years. In addition, predictions for the next century of meteorology will be offered.

The Waynick Lecture Series began in 1984 and is made possible each year by the Waynick Memorial Fund, established in memory of former professor of electrical engineering **Arthur Henry Waynick**.

Conference examines history of communication

"Communication in the Middle Ages," a two-day conference on the evolution of various forms of communication featuring a multitude of speakers, is set for April 4-5 at The Nittany Lion Inn on the University Park campus.

Organized by the Center for Medieval Studies and various departments and colleges at Penn State, the conference will focus on understanding the complex political, social and cultural implications of today's communication revolution by fitting it into a historical perspective, particularly in terms of earlier, equally significant communications revolutions in Western history. Some of the topics included in this event are: "Per Imagines Expressa: The Visualization of Religious Messages in the Roman Art of the Middle Ages," presented by **Valentino Pace**, University of Rome; "Communication Through Capital and Trade," given by **Pamela Nightingale**, Ashmolean Museum, Oxford, England; and "Counting, Calendars, and Cosmology: Numeracy in the Early Middle Ages," presented by **John Contreni**, Purdue University.

The conference is free to all students, Penn State faculty and staff, Pennsylvania educators and senior citizens. Registration is \$25 for the general public and outside faculty. A medieval luncheon will be held Friday, April 4, at the inn at a cost of \$12. The Medieval Banquet, featuring period cuisine and followed by a medieval play, will be held Friday evening. Banquet tickets may be purchased for \$21.50.

For information on registering and/or reserving meal tickets, contact **Pat Nickinson** at S 327 Burrows Building, (814) 865-7484, or pan4@psu.edu.

Learn why we should worry about natural disasters

Alan G. Davenport, professor of civil engineering, will present a lecture at 7:30 p.m. Thursday, April 3, in the Applied Research Laboratory auditorium on "Why Worry About Natural Disasters?" Davenport also is director of the Boundary Layer Wind Tunnel Laboratory at the University of Western Ontario.

Davenport has pioneered the application of research from boundary layer wind tunnel to the design of wind-sensitive structures, engineered to overcome common structural problems involving the action of wind. He has acted as engineering consultant for many major structural projects, including projects involving some of the world's tallest buildings such as the World Trade Center in New York City and the Sears Building in Chicago.

The lecture, presented by the Department of Civil and Environmental Engineering, is the fifth annual Thomas C. Kavanagh Memorial Structural Engineering Lecture, named in memory of the late **Thomas C. Kavanagh**.

More Lectures

Miss America to speak on literacy in America

Tara Holland, Miss America 1997, will be the keynote speaker during the Office of Volunteer Programs and Services' celebration of National Volunteer Week, April 13-19. An advocate for literacy awareness and volunteerism, Holland will speak on "Literacy in America: The Power of One" at 7 p.m. Tuesday, April 15, in 112 Kern Building on the University Park Campus. The lecture is free to the public.

As president of the Campus Alliance For Literacy at Florida State University, Holland recruited, trained and placed more than 150 volunteers in 30 classrooms. She was awarded Daily Point of Light No. 723 by former President George Bush and was the Miss America organization's 1995 national community service winner.



TARA HOLLAND

Holland graduated magna cum laude from Florida State University and is pursuing a master's degree in music education at the University of Missouri, Kansas City.

Other activities for the week include a Lions Share recruitment reception from 6:30 to 7:30 p.m. Wednesday, April 16, in 305 Hetzel Union Building. Lions Share coordinators also will be available to answer questions about volunteerism from 10 a.m. to 2 p.m. on April 9, 10, 14, 15 and 16 on the ground floor of the HUB. Lions Share student coordinators match students with volunteer agencies in the community.

For more information, contact the Office of Volunteer Programs and Services at (814) 863-4624 or e-mail Cindy Rudy at ccr20@psu.edu.

Health policy lectures planned for April

Two seminars on issues in health policy and health administration are planned for April on the University Park campus. The seminars, sponsored by the Institute for Policy Research and Evaluation, the Center for Health Policy Research and the Department of Health Policy and Administration, follow:

■ **Friday, April 11: Cynthia Massie**, assistant professor of public affairs, Penn State Harrisburg, on "Long-Term Care: A Policy of

Fragmentation" from 1-2:30 p.m. at The Living Center, Henderson Building.

■ **Monday, April 21: Kevin Frick**, Department of Health Policy and Management, School of Hygiene and Public Health, Johns Hopkins University, on "HMOs and Medical Care Technology: Global Responsibility for Assuring Cost-Effectiveness and Local Coverage Decisions" from 9:30-11 a.m. at The Living Center, Henderson Building.

Arts

Continued from page 8

Country concerts planned

The Community Arts Center in Williamsport has booked its first two New Country concerts for the 1997-98 year.

Tracy Byrd, whose singles "Keeper of the Stars," "Walking to Jerusalem" and "Watermelon Crawl" sent his career into the fast lane and brought him to the Arts Center in August 1995, will return Thursday, Aug. 14, at 7:30 p.m. His current CD, "Big Love," features his No. 1 hit song of the same name.

Kathy Mattea will bring her mix of soulful vocals, bluegrass, gospel and rockability to the Arts Center at 7:30 p.m. Saturday, Oct. 18. Mattea released her 11th studio album, "Love Travels," in January.

Tickets for each show at \$18.50, \$23.50 and \$28.50 will go on sale at 10 a.m. Monday, March 31, at the Arts Center.

For more information, call (717) 326-2424 or (800) 432-9382.

Former ambassador to discuss Marshall Plan

David M. Abshire, former U.S. ambassador to NATO and founder and president of the bipartisan Center for Strategic and International Studies in Washington, D.C., will be the guest lecturer in the George C. Marshall-Penn State Lecture Program on April 17 at the Penn State Fayette campus. Abshire will discuss the historical legacy of the Marshall Plan and its impact on U.S.-European relations today. The free lecture will be held in the Williams Building Auditorium starting at 7:30 p.m. A question-and-answer period will follow the presentation.

In conjunction with the lecture, the Fayette campus library will display a Marshall exhibit for several days before the event. The display will be

moved to the hallway outside of the Williams Building Auditorium on the evening of the lecture.

Abshire served as assistant secretary of state in the early 1970s. During the transition of government in 1980, Abshire was asked by President-elect Reagan to head the National Security Group, including the state and defense departments, the U.S. Information Agency and the Central Intelligence Agency.

From 1983 to 1987, he served as ambassador to NATO, and in 1987 served as special counselor to President Reagan, with cabinet rank. He is the author of five books, including *Putting America's House in Order: The Nation as a Family* (1996).

Short course to teach chromatography techniques

"Advanced Practical Techniques of Gas Chromatography," an intensive short course geared toward faculty and staff members who use chromatography as a research tool, is scheduled for The Penn State Scanton April 14-16 and Oct. 22-24.

This intensive short course combines hands-on lab experience using equipment from Hewlett-Packard, the leading manufacturer of gas chromatography equipment. Graduate and undergraduate students who want practical experience, industrial chemists, technicians and managers who want to know more about analytical separation techniques also may attend. A limited number of spaces are available at a substantially reduced rate for current, full-time students.

For additional information, call (800) PSU-TODAY (778-8632) or log-in to <http://www.cde.psu.edu/C&I/GasChrom/>

Learn about mental health problems of children

Mental health professionals, educators and concerned parents can explore ways to help anxious, depressed children and those with attention deficit disorder/hyperactivity (ADD or ADHD) in two programs at The Penn State Scanton April 21-22.

The April 21 workshop, "Erasing the Shadows: Helping the Depressed and Anxious Child," is primarily for counselors. It includes sessions on fear and anger, intervention and strength through empowerment in the classroom.

A two-session workshop, "Identifying and Managing ADD/ADHD (and its Clones) and Improving a Child's Self-Esteem," will be held April 22.

James D. Sutton, who will lead the workshops, is a consulting psychologist, author and speaker. He specializes in training child service professionals on the campuses of major universities. His latest book is *My Kid's So Nice... Why's He Driving Me Crazy*.

For more information, contact **Chris Dufour**, conference planner, at (814) 863-5110 or by e-mail at Confencinfo1@cde.psu.edu.

Arts Center season

The Community Arts Center in Williamsport, part of Penn College, has announced its 1997-98 Performing Artist Series. Celebrating the fifth full year of arts at the 2,165-seat fully restored venue, the 10-event season is titled "New Traditions."

■ **Starting the season** off on Saturday, Sept. 20, will be TV, movie and comedy icon **Bill Cosby**, with performances at 6:30 and 9 p.m.

■ **One of the world's most popular and vibrant operas**, Bizet's "Carmen," will be performed Tuesday, Nov. 4, by Western Opera Theatre, the touring wing of the San Francisco Opera.

■ **Family adventure** takes to the high seas with "Treasure Island" on Sunday, Nov. 9.

■ **The holidays** start early with "A Judy Collins Christmas" on Sunday, Nov. 30. The evening also features a 30-voice choir.

■ **"My One And Only"** will be performed on Thursday, Jan. 15, 1998.

■ **Tuesday, Feb. 10, 1998**, brings the Bernstein/Sondheim/Laurents/Robbins masterwork "West Side Story" to the stage.

■ **The Broadway musical "Damn Yankees"** will perform Thursday, March 5, 1998.

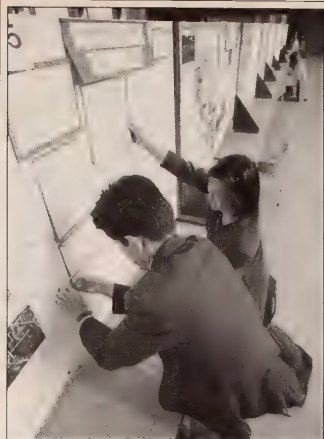
■ **Doing it "his way"** on Wednesday, March 25, 1998, will be five-decade veteran of stage and song **Paul Anka**.

■ **New Vaudeville sensations** The Flying Karamazov Brothers bring their zany antics to the Arts Center on Wednesday, April 1, 1998.

■ **The season concludes** with "How To Succeed In Business Without Really Trying" on Tuesday, April 21, 1998.

All performance times, other than those for Bill Cosby, will be at 7:30 p.m. Subscriptions for the season will be solicited soon, and subscribers will enjoy an exclusive sales period through Friday, Aug. 8. Single tickets will go on sale Monday, Aug. 18 at 10 a.m.

For more information, please call (717) 326-2424.



Photos: Greg Grieco

■ Graduate Research Exhibition



Health education graduate student Noriko Toyokawa gets help from her husband, Toru Toyokawa, in setting up her research display, "Social Network for Japanese Women: Connection of the People and the Meaning of Support," left, at the start of the Graduate Research Exhibition. During the fair, Chao Zhang demonstrated his research in thermo-acoustic refrigerator design, which shows how temperatures can be controlled through the use of sound, above. More than 150 graduate students had their research represented at the exhibition, held March 21-22 in Kern Building on the University Park campus.

BOOK SHELF

Ministry to the Incarcerated, a book that focuses on the prison system, has been written by **Harry Covert**, adjunct instructor of administration of justice and pastor of St. Peter's United Church of Christ in State College.

Published by Loyola University Press, the book contains insights for church ministry and pastoral care. Covert uses his experience as both police officer (for 19 years) and prison chaplain to examine the problems of the incarcerated. Covert addresses specific areas of inmate stress, such as low self-esteem, guilt and unrealistic expectations and explains how these can be major obstacles to a prisoner's personal and spiritual development.

Pedagogy and the Politics of Hope by **Henry Giroux**, a professor in the College of Education at the University Park campus, is a collection of his writings on critical pedagogy and social criticism.

The book is organized into three sections. The first includes Giroux's most widely read theoretical critiques on the culture of positivism and technocratic rationality. He contends that without a wholistic world view, these approaches fail to take into account social, political and historical forces, or to consider the importance of such connections for the process of schooling.

In the second section, Giroux

expands the theoretical framework for conceptualizing and implementing his version of critical pedagogy. His theory of border pedagogy advocates a democratic public philosophy that embraces the notion of difference as part of a common struggle to extend the quality of public life.

In the last section, Giroux explores a number of contemporary traditions and issues, including modernism, post-modernism and feminism, and discusses cultural difference in the classroom. Finally, in a new essay, Giroux analyzes the assault on education and teachers as public intellectuals that began in the Reagan-Bush era and continues today.

Extreme right wing groups and hate radio have been in the news in recent years, but such groups have always been a part of the American religious and political landscape. And, they have used radio to spread their messages for as long as radio has existed.

A new book by **Philip Jenkins**, a professor of history, religious studies and criminal justice in the College of the Liberal Arts, uses developments in Pennsylvania as a case study of the local activities and broader significance of such organizations.

Hoods and Shirts: The Extreme Right in Pennsylvania, 1925-1950 published by University of North Carolina

Press, highlights the activities of racist, nativist and fascist groups who maintained a stronghold on Pennsylvania's cities during this time. Jenkins traces the uneasy alliances that united these groups in their commitment to a fascist agenda as well as the fundamental ethnic and religious differences that divided them. Jenkins based his research in Pennsylvania's extensive Ku Klux Klan archive and on other original sources and contemporary media accounts.

Jenkins is the author of many other books, including *Pedophiles and Priests: Anatomy of a Social Crisis* and *Using Murder: The Social Construction of Serial Homicide*.

Manfred Kroger, professor of food science, edited the book *The Dictionary of Metaphysical Healthcare: Alternative Medicine Paranormal Healing and Related Methods*, by Jack Raso, published by the National Council Against Health Fraud Inc.

Werner Pluhar, affiliate professor of philosophy at the Fayette campus, is the translator of Immanuel Kant's *Critique of Pure Reason*, with an introduction by Patricia Kitcher, published by Hackett Publishing Co. (1996). This 1,089-page book includes close to 5,000 footnotes and a 189-page index, a glossary and a bibliography. This is the first time that Kant's magnum opus has been translated into English since Norman Kemp Smith's translation appeared in 1929.

B. Allan Quigley, associate professor and regional director of adult education in the College of Education, is author of *Rethinking Literacy Education*.

In this thought-provoking book,

Quigley reveals some unrecognized truths about who illiterate people are and challenges the assumptions and agendas that shaped past literacy education efforts.

Quigley advocates a new view of literacy that focuses on the learner and takes into account a broad array of work, family and cultural consideration. He also provides suggestions and alternatives which practitioners can use to shape a new philosophy of adult literacy and improve the effectiveness of literacy education in America.

Quigley argues policy regarding adult literacy education needs to be based on input from practitioners who have a long-term commitment to the field.

Lita Linzer Schwartz, distinguished professor emerita of educational psychology at Abington College, and **Florence W. Kaslow**, director of the Florida Couples and Family Institute, are co-authors of *Painful Partings: Divorce and Its Aftermath*, published by John Wiley & Sons.

In this new volume, a follow-up to their 1987 *The Dynamics of Divorce*, the authors look at changing life-cycle trends in divorce and explore a host of new economic, cultural and social issues confronting a highly mobile generation of divorced spouses and parents.

The book covers emerging alternatives to litigation — like mediation, and looks at sensitive matters, such as physical and emotional abuse and child custody. It also examines issues like fathers' rights, mid-life divorce and what happens when one partner exits a marriage in order to lead a homosexual lifestyle.

Penn Staters

Marc Abrams, associate professor of forest ecology/physiology, was named to the editorial review board of *Tree Physiology*, published by Heron Publishing.

Paul Barsom, instructor of music in the College of Arts and Architecture's School of Music, has had his original work for solo piano, *Vesper*, performed several times this concert season by pianist **Mia Kim**. Kim performed *Vesper* in Vermont in August 1996; Little Rock, Monticello, Arkadelphia and Magnolia, Ark., in September 1996; Dayton and Zanesville, Ohio, in October 1996; and in Roanoke, Va., in November 1996.

Kim has performed as a soloist and chamber musician throughout the United States, and currently performs the work as a regular part of her recital programs. *Vesper* is in three parts: "Fogs and Winds," "Off The Inland Desert" and "Night-Blooming Jasmine." It has been performed throughout the United States and abroad.

Christopher J. Bise, professor of mining engineering and chair of the Mining Engineering Section in the Department of Mineral Engineering, has been chosen to receive the 1996 Faculty Award of the Old Timers Club in recognition of his accomplishments in the field of mining engineering. The Old Timers Club Inc., a group of leading mineral industry executives, was founded in the 1930s to promote the mining engineering profession and industry.

Refik Culan, associate professor of management at Penn State Harrisburg, Capital College, presented a paper, "International Joint Ventures in Russia: A Critical Analysis," at the Fourth Annual Conference Marketing Strategies for Central and Eastern Europe, in Vienna, Austria.

Daniel Deaver, professor of reproductive physiology, has been named chair of the Intercollege Program in Physiology.

Glenn Firebaugh, professor of sociology, has been named editor of the *American Sociological Review*, which will be housed at Penn State.

Peter B. Flemings, assistant professor of geosciences, has received the 1997 J.C. "Cam" Sproule Award of the American Association of Petroleum Geologists, an award that recognizes the best paper by a young scientist published in the past year by the association. Flemings and Laurel I. Alexander of Shell Offshore Inc. were authors of "Geologic Evolution of a Pliocene-Pleistocene Salt-Withdrawal Minibasin: Eugene Island Block 300, Offshore Louisiana."

Iam-Choon Khoo, professor of electrical engineering, presented an invited paper on "Photoconductivity and photorefractivity of Fullerene and its Derivative-doped Liquid Crystals" at the Fourth International Conference on Frontiers of Polymers and Advanced Materials at Cairo, Egypt. He also chaired the symposium on electronics and photonics materials at the same conference. The co-authors of his paper are graduate stu-

dents **Brett D. Guenther** and **Michael V. Wood**.

Donna C. Nicely, coordinator of the Office of Educational Research, and **Robert E. Nicely Jr.**, professor of education and associate dean for outreach and faculty development, both in the College of Education, presented an invited paper, "Faculty Development: Enhancing the Integration of Research, Teaching and Service in a Land Grant University," at the 1996 annual meeting of the Society of Research Administrators in Toronto, Ontario, Canada.

In addition, **Robert E. Nicely Jr.** was recognized in 1996 by the 200,000-member international Association for Supervision and Curriculum Development (ASCD) for editing the "Best Affiliate Journal." This is the third time in the last four years that ASCD has recognized Nicely's editorial work.

Stuart Patton, Evan Pugh professor emeritus in agriculture, has been selected as the recipient of the Macy-Gyorgy Award for Research on Human Milk and Lactation by the International Society for Research on Human Milk and Lactation. The award honors Patton's outstanding and original scientific contributions. Since retiring in 1980, Patton has been a guest scientist at the University of California, San Diego and in the Penn State laboratory of **Craig Baumrucker**, Department of Dairy and Animal Science.

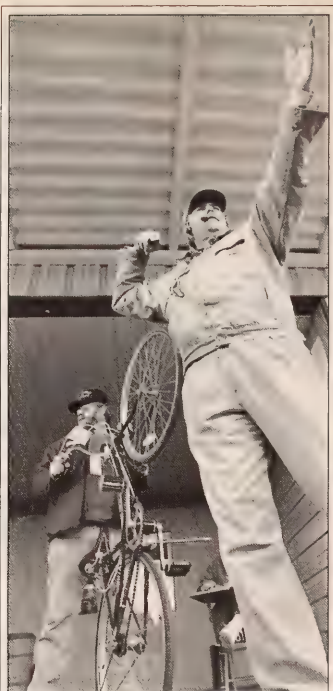
Jeffrey K. Pinto, associate professor of management at Penn State Erie, The Behrend College, has been named the Samuel A. and Elizabeth B. Breene Fellow in management, Behrend's first-ever endowed faculty fellowship. The five-year appointment will provide support for Pinto's research.

Stephen R. Turns, professor of mechanical engineering, has been awarded the Forest R. McFarland Award by the Society of Automotive Engineers Inc. for his outstanding service.

Gabriella Varga, professor of animal science, was appointed to the National Research Council committee charged with developing the primary document for nutrient requirements for dairy cattle.

M. Susie Whittington, assistant professor of agricultural and extension education, received the Author of the Year Award from the American Association of Agricultural Educators for the article "Thinking Opportunities Provided by Professors in College of Agriculture Classrooms" in the *Journal of Agricultural Education*.

The DuBois campus Web site at <http://twu.ds.psu.edu> has been listed in ComputerWorld Magazine's Premier 100 listing of users of Internet technology. The top 100 are listed alphabetically, not numerically. In the top 100 sites listed, only six are higher education Web addresses. Information about criteria used for judging and more information on others who made the list can be found at <http://www.computerworld.com/premier/970210premier1.html>



For sale

Auctioneer Ron Gligan solicits bids on bicycles for sale at University Salvage. Faculty, staff, students and members of the State College community turned out to bid on 185 bikes, which were abandoned on the University Park campus and have been in Police Services custody. The auction is an annual event at the campus.

Photo: Greg Grieco

Promotions

Staff

Trina J. Armstrong, senior statistical analyst at The Hershey Medical Center.

Donna R. Ballock, staff assistant VI in College of Health and Human Development.

Robert W. Barlock, lead applications programmer/analyst in Office of the Vice Provost and Dean for Undergraduate Education.

Steve C. Blazer, senior purchasing agent in Business Services.

Terry D. Blesh, coordinator, research funds in Applied Research Laboratory.

Sandra M. Conrad, staff assistant VI in Business Services.

Tauni M. Cramer, staff assistant V in Business Services.

Duane M. Bullock, purchasing agent in Business Services.

Rebecca J. Carolus, administrative assistant I in University Libraries.

Sandra L. Cartwright, staff assistant IV at Penn State York campus.

Toni M. Dagen, staff assistant VI in Student Affairs.

Identifying tender steaks can be a rare thing for consumers

By JOHN WALL
College of Agricultural Sciences

American consumers might have a major beef with cooking. They're finding that it's tougher to recall which cuts of meat make the most flavorful meals — a trend that cuts to the bone of a nation once known for its consumption of steak.

"I see a lot of misunderstanding and lack of knowledge about meats," said Edward Mills, associate professor of dairy and animal science in the College of Agricultural Sciences. "There is less cooking going on at home. More people are eating out, and when someone has to prepare a big family meal for a special occasion, I imagine there is a lot of fear on the part of an unprepared cook."

A recent survey by Yankelovich Partners reports that more than half of the adults questioned thought they had less knowledge of cooking than their mothers. Mills also points to consumer preferences for low-fat meals featuring fish and poultry, changes in how the meat industry markets products and lifestyle changes for a new generation of consumers as factors contributing to the trend away from steaks.

Mills said per-capita beef consumption has held steady at about 66 pounds for most of the past decade. Previously, beef consumption had decreased from a historic high of 94.5 pounds per capita in 1976. In fact, per-capita consumption of beef cuts, including steaks, increased in 1995 and 1996.

"People are still eating beef, but they're eating it in different forms," he said. "Consumption of ground beef products in fast foods such as hamburgers and tacos has risen every year."

Mills points out two other factors that contribute to America's lack of beef knowledge. First, meat processors began shipping pre-cut beef in vacuum-packed cartons, known in the trade as "boxed beef." Previously, beef was shipped by hanging half carcasses. "The boxed beef made it easier for grocery stores to prepare meat cuts, because the carcass was already broken down," Mills said. "Most bones also are removed, which is convenient but makes it harder for consumers to identify certain types of traditional steaks."

Second, the move to boxed beef distribution eliminated the need for grocery stores to have an experienced butcher in every store. Consumers usually buy pre-packaged cuts these



Edward Mills, associate professor of dairy and animal science, said many factors contribute to consumers' lack of knowledge about meats.

Photo: Greg Grieco

days, often without being waited on by a grocery employee.

As a result, consumers can sometimes be at a loss to identify the most tender and flavorful cuts of beef. Mills said it's just a matter of imagining how a cow moves. The muscles that get the most use tend to be less tender. The cuts near the front legs, commonly known as the brisket and chuck sections, and the cuts near the back legs, known as the rump and round sections, are less tender. The cuts from the middle section of the animal, the loin, rib and short loin sections, are the most tender and flavorful.

"The steaks from this section, called 'middle meat,' are New York strip, rib steak, Delmonico, filet mignon and porterhouse, which is a strip steak and filet together," Mills said. "Cuts from the chuck and round section, such as 'English roast' or 'eye

of the round' can also be quite tender when properly cooked."

Mills said some organizations tout beef from specific breeds of cattle, but he said that, among beef breeds in the United States, the differences in taste and tenderness are minor. The most common American beef breeds are Hereford and Angus. Some of the common exotic breeds, which are mostly of European origin, are Charolais, Limousin and Simmental.

Another key to beef flavor is fat and juiciness, Mills said. The amount of marbling, which is flecks of fat within a steak, can mean the difference between gourmet eating and sore gums. "If you seek out a really lean steak, you're probably going to be chewing it for a long time," Mills said. "Consumers should look for steaks with flecks of marbling throughout the meat."

Vegetative filters can ease disposal of milk house wastewater

Some small dairy farms in Pennsylvania are having trouble disposing of the wastewater from their milk houses, but vegetative filters can provide a solution, according to a dairy housing specialist in the College of Agricultural Sciences.

"Milk house wastewater disposal is a problem across Pennsylvania," Robert Graves, professor of agricultural engineering, said. "Whether it comes from a small 30-50 cow milk house or a milking center with a large parlor-utility room complex, milk house wastewater can find no home."

Milk house wastewater, a dilute mixture of washwater from the parlor, equipment sanitation water and manure, usually contains nitrogen, phosphorus, fats and minimal sanitizers and detergents. "Depending on the farm, milk house washwater only amounts to 100-300 gallons per day," Graves said. "It doesn't seem like a lot — unless you're trying to get rid of it."

Subsurface disposal through a settling tank and leach field was a common wastewater disposal method for small farms, but since the early 1960s, no new or repaired subsurface systems are allowed by the state Department of Environmental Protection.

The simplest disposal solution is to collect and pipe the wastewater into a liquid manure system — a time-consuming and annoying task. Another disposal method is the vegetative filter, specially designed acreage where vegetation can absorb wastewater nutrients before being harvested. Graves said, "Parlor wastewater is temporarily held in a tank and then land applied, discharged or allowed to trickle through perforated pipe directly into the field. Properly managed vegetative filters are economical, environmentally sound and approved by DEP. Also, they don't cause fly or odor problems."

Proper design and management are essential, however.

"Filters should be located away from critical areas such as streams and ditches. Harvesting also is critical, because periodic crop removal prevents nutrient buildup in the soil and eventually in the groundwater."

Whichever disposal method they select, Graves urges dairy farmers to consult their milk inspectors.

Obituaries

Mary Ellen Cree, residence hall worker, Housing and Food Services, from Sept. 27, 1965, until her retirement Jan. 1, 1982; died Feb. 10 at the age of 76.

Aaron Druckman, associate professor of philosophy, from Sept. 1, 1935, until his retirement July 1, 1978; died Feb. 23 at the age of 84.

Brian T. Fiedler, maintenance worker, utility, Penn State Shenango campus, from April 12, 1979, until his death March 6. He was 42.

L. Fern Hess, records clerk, Admissions Department, from March 1, 1955, until her retirement March 1, 1966; died Feb. 19. She was 92.

Joseph Nicosia, maintenance worker, utility, Penn State Worthington Scranton campus, from July 1, 1970, until his retirement Jan. 17, 1984; died Feb. 18 at the age of 78.

Walter R. Weber, instructor, Penn State Worthington Scranton campus, from Aug. 16, 1985, until his death Feb. 26. He was 53.

Patricia K. Erdmann, staff assistant VI, Corporate Controller's Office, from Sept. 20, 1973, until her retirement Oct. 1, 1996; died Feb. 18 at the age of 47.

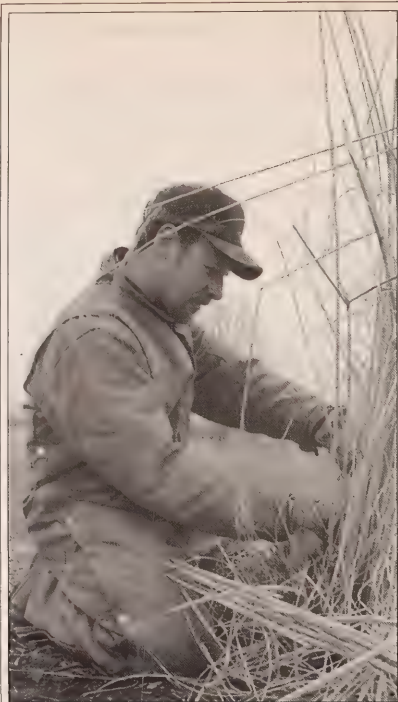
Patricia A. Hankinson, residence hall utility worker, Housing and Food Services, from Jan. 18, 1978, until her retirement Feb. 29, 1992; died March 13 at the age of 67.

Catherine B. Love, assistant professor of consumer economics, College of Agricultural Sciences, from Nov. 7, 1956, until her death Feb. 22. She was 80.

Ralph E. Nielsen, professor of petroleum and natural gas engineering, College of Earth and Mineral Sciences, from Oct. 1, 1940, until his retirement July 1, 1967; died Feb. 25. He was 95.

Ernest C. Pollard, professor of biophysics, Eberly College of Science, from July 1, 1961, until his retirement July 1, 1971; died Feb. 24 at the age of 90.

Marjorie J. Rudy, staff assistant VI, College of Agricultural Sciences, from Jan. 1, 1959, until her death March 8. She was 58.



Almost tee time

Scott Lucas, one of five groundskeepers for the Blue and White golf courses on the University Park campus, trims some of the exotic grasses found on the courses. There are approximately 95 acres devoted to the two courses, which are open to the public as well as the University community. To arrange a tee time at the courses, call (814) 865-1833.

Photo: Greg Grieco

Harrisburg has new dual admission pact with Reading school

Building on recent agreements with Pennsylvania institutions of higher education, Penn State Harrisburg and the Reading Area Community College (in Berks County) signed an articulation and dual admission agreement that will allow students to begin their academic career at RACC and continue through associate's degree studies to a "seamless" transfer to a Penn State Harrisburg baccalaureate program.

Reading Area Community College offers more than 60 different programs of study which lead to a diploma, certificate or associate degree. The programs are spread throughout five academic divisions, — business, health services, humanities, science and mathematics, and social science/human services.

The Reading articulation comes on the heels of a number of other Penn State Harrisburg educational partnerships and linkages.

Private Giving

Alumnus creates merit scholarship

A \$100,000 gift from Penn State alumnus **Bernard A. Newman** of Pompano Beach, Fla., has created a merit scholarship in journalism for the College of Communications. The scholarship will support first-year undergraduates who intend to major in the college's journalism program.

Newman is a 1940 graduate in journalism and a native of Scranton. While working as a student reporter of the *Daily Collegian*, he was instrumental in conceptualizing the Nittany Lion Shrine. He also helped search for a sculptor and promote the fund-raising drive for the shrine, the gift of his senior class to the University.

Following graduation, he worked with the *New York Daily News*, served in the Pacific theater of operations during World War II and was later a sales manager for Pitney-Bowes Inc. offices in Rochester, N.Y., and Denver for 28 years.

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To view this issue, visit the Web at <http://www.psu.edu/ur/INTERCOM/Home.html>. To view past issues, go to the same address and click on "Archive."



INTERCOM

April 3, 1997

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Volume 26, Number 26



On the links

Dan Fabin enjoyed warm spring weather recently during class time. The senior agricultural and biological engineering major wasn't shirking his responsibilities, however—he is taking Denise St. Pierre's golf class at University Park this semester. Although cold weather returned milder weather made its appearance across much of the state recently.

Photo: Greg Grieco

UPC making progress in its effort to streamline operations

By LISA M. ROSELLINI
Public Information

University academic and administrative units searching for ways to help close the projected funding gap Penn State faces are proposing sharing resources, increasing collaboration, increasing efficiency through training and eliminating duplication, according to members of the University Planning Council.

With a projected \$12 million a year shortfall in funds over each of the next five years, the UPC has been aggressively pursuing cost-saving ideas identified by academic and administrative leaders. Guid-

ed by a vision to integrate the teaching, research and service missions of Penn State and to concentrate on quality, the UPC is completing an almost two-year process aimed at helping colleges, campuses and administrative units devise strategic plans that will lead them into the future.

As part of the process, the UPC is reviewing every aspect of Penn State and its budget through a variety of means, including holding dozens of hearings. During the hearings, individual units or campuses present their strategic plans outlining their core missions and the areas to be emphasized. In addition to flagging areas that could be enhanced,

See "UPC" on page 3

Kellogg Commission urges universities to be more student-centered

The Kellogg Commission on the Future of State and Land-Grant Universities, whose membership includes President Graham B. Spanier, on April 2 released a report calling on public institutions of higher education to become more student-centered, to better support and inspire learners of all kinds, and to more comprehensively sustain a healthy learning environment.

"State and land-grant universities like Penn State have been tremendous agents for social change in this century," Spanier said. "With this report, we are urging ourselves and others to reorganize and refocus our missions to move students even closer to the center of all that we do."

The report, called "Returning to Our Roots: The Student Experience," was released by the commission in Washington, D.C.

"The report is a bold framework for reform," Spanier said. "It recognizes that all public colleges and universities are now at a critical juncture in history, facing tough challenges that require us to look more carefully than ever before at our most impor-

See "Kellogg" on page 2

Faculty and Staff Campaign starts today

The annual Faculty and Staff Campaign kicks off today, offering Penn State employees the opportunity to help build the firmest possible financial foundation for the University's teaching, research and outreach goals.

Faculty and staff have combined their efforts to help make the University what it is today—and what it will be tomorrow—through their vital work and their tradition of giving to Penn State. Last year, more than 3,600 employees contributed \$1.5 million to support a variety of programs including college and campus initiatives, the University Libraries, arts organizations, intercollegiate athletics and public broadcasting.

"When employees support the University financially, they are enriching the Penn State experience

See "Campaign" on page 2

Inside



Awards Ceremony

The Academic Awards Ceremony will be held beginning at 1:30 p.m. Sunday, April 6, at University Park. For details on the awards and their winners, please see pages 9-14.



Spring ahead

It's time once again to lose some sleep. Don't forget to set your clock ahead one hour before you go to bed Saturday night, April 5. Daylight-Saving Time begins Sunday, April 6.

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■ Faculty Senate

Spanier's free expression stance supported

The University Faculty Senate applauded remarks from President **Graham B. Spanier** concerning a controversial art exhibit on the University Park campus and the results of a recent Penn State survey on student alcohol consumption at its March 25 meeting.

"There must be some fundamental principles by which we stand," Spanier said in relation to the artwork that has come under fire. "I can't envision any circumstances under which this University would want to encourage censorship." Spanier's comments were in response to criticism he has received surrounding the display of artwork by student Christine Eneidy titled "25 Years of Virginity: A Self-Portrait." Eneidy exhibited a quilt covered with 25 pairs of underwear, each with a cross stitched on the crotch.

Spanier noted that the School of Visual Arts has a good policy in place that calls for the student and faculty member to discuss public sensitivities and decide together whether or not to display a particular work of art. Eneidy's work was recently on display in Zoller Gallery.

Spanier also commented on Penn State's February 1997 survey on student drinking, which noted that 52 percent of the students surveyed were aware of his stance on alcohol. The president has been outspoken about his desire to curb student drinking.

"I am very pleased to say there is some discernible change this year, for the very first time," he said.

"I can't envision any circumstances under which this University would want to encourage censorship."

President Graham B. Spanier

The survey, "Penn State Pulse, Student Drinking," was a telephone poll of 697 undergraduates. Results showed that 43 percent of men and 46 percent of women abused alcohol this past February, compared to 51 percent of men and 54 percent of women in February 1996.

In summarizing the outcome of the March 21 Board of Trustees meeting, Spanier said that Gov. **Tom Ridge** approved a multi-year \$200 million capital construction funding plan. "Now, we can dust off some of our plans and predict with a little more accuracy which projects will be completed when," Spanier said the approved funding was good news, marking an increase, where funding had been declining or nonexistent in the past.

The Senate held discussion on several agenda items related to faculty development and evaluation, degree audit requirements, course substitution forms and a report on the NCAA's January meeting.

The Senate passed a degree audit amendment that would provide undergraduates access to their degree audit report each semester they are

enrolled and a second amendment requiring the entry of all exceptions to individual student degree requirements in the Integrated Student Information System (ISIS). Both are important reference points in planning a student's course of study and graduation.

John Coyle summarized recent changes in NCAA regulations that affect undergraduate education. Division I schools will shift to a representative form of governance instead of one school, one vote. For the first time, Division I athletes will be permitted to earn on- and off-campus income in combination with other financial aid.

In other business, the Senate:

- Accepted a committee report that recommends a renewed focus on faculty development, encourages mentoring, the use of teaching portfolios and peer evaluation.

- Approved a proposed amendment to its bylaws allowing the academic voting unit of a multi-campus system to determine the allocation of its Senate seats, provided that each geographic location is represented by at least one senator.

- Approved a proposed amendment to its bylaws requiring a voting unit to select as its alternate the candidate receiving the second-highest number of votes. If the elected senator leaves the position before the term ends, the alternate would assume those responsibilities.

The Senate's next meeting will be at 1:30 p.m. on Tuesday, April 22, in 112 Kern Building.

Kellogg

continued from page 1

tant goals and the bottom line. At Penn State, we educate more than 77,000 students, and we are committed to ensuring that they receive the highest-quality education possible. But all of us need to examine our attitudes, orientation, and responsibilities, and move students even closer to the center of the university experience."

The 25-member commission was created by a \$1.2 million grant given by the W.K. Kellogg Foundation to the National Association of State Universities and Land-Grant Colleges. "The Student Experience" is the first of a series of commission reports that will frame a vision for reforming pub-

For more details

The entire text of "Returning to Our Roots: The Student Experience" is available online at the new NASULGC Web site, <http://www.nasulgc.nche.edu>.

lic higher education and outline action steps for change.

E. Gordon Gee, president of The Ohio State University, chairs the commission, and **Dolores R. Spikes**, president of the University of Maryland Eastern Shore, is the commission's vice chair. **John V. Byrne**, former president of Oregon State University, is the executive director.

Also a member of the commission is **Samuel H. Smith**, president of Washington State University and former dean of Penn State's College of

Agricultural Sciences. The foundation's president, **William Richardson**, is former president of Johns Hopkins University and former provost of Penn State.

Action commitments in the report include:

- revitalizing partnerships with elementary and secondary schools;
- reinforcing the commitment to undergraduate instruction;
- strengthening the link between education and career;
- improving teaching and educational quality while keeping college affordable and accessible;
- defining educational objectives more clearly and improving assessment; and
- creating many more opportunities for hands-on learning, including undergraduate research.

The commission also plans to follow up this first letter by launching a "national conversation" through encouraging dialogs around the country to evaluate and discuss the statement of principles and action steps.

"The Kellogg Commission was created because our universities face a crisis," said NASULGC President **C. Peter Magrath**. "Public universities must enjoy the public's confidence to perform their vital and unique missions, and to do that higher education must not simply allow but actively encourage and embrace change."

Commission Chair **Gee** said the commission's report "resembles an architect's rendering of what the public university of the future might look like. It describes ways to create a genuine learning community that has an unflinching commitment to better meeting students' needs."

Campaign

continued from page 1

and setting an example for the alumni, corporations and foundations which are also asked to help keep this a world-class institution," said **Richard E. Tressler**, the 1997 campaign chair and professor and head of the Department of Materials Science and Engineering.

"Whether we teach in the classroom, maintain the physical plant, work in a clerical or administrative position, or conduct research in a laboratory, each of us fills a vital role in making ours a university in which we can take pride," he added.

Two options are available for employees wishing to participate in the Faculty and Staff Campaign — they can make an immediate gift, or sign up for the convenience of payroll deduction by simply filling out the form they will soon receive at their campus address and returning it to the Office of Annual

giving by May 30. They may direct their gift to any area within the University — including specific campuses, colleges, departments, scholarships, endowments, equipment funds, building campaigns and elsewhere, or leave the gift undesignated for use by the university wherever the need is greatest.

For more information, call **Barbara Sarra** in the Office of Annual Giving at (814) 863-2052. At locations other than University Park, contact the director of development.



UPC update

Louise Sandmeyer, executive director of the Center for Quality and Planning, above, left, explained progress made in the University's strategic planning process, during a meeting at The Nittany Lion Inn on the University Park campus. University employees, including Jim Kerlin, above, and Virginia Olexy, below, left, were active participants in the discussion.

Photos: Greg Grieco

UPC

Continued from page 1

units must also identify areas where funding should be reallocated. The vision of each unit or campus should align with Penn State's overall mission and goals.

In a public meeting last week to explain the strategic planning process and the progress the UPC has made to date, a small group of University employees listened as four council members described what was being done and what could be expected in the months to come.

"The last hearing we have scheduled will be held April 14 for The Hershey Medical Center," said Louise Sandmeyer, executive director for the Center for Quality and Planning and a UPC member. "After that, there will be some back and forth between the UPC and the Budget Task Force, the group identified to pinpoint the University's key programs and to direct resources to strengthen these programs."

A draft of the University-wide plan that incorporates the individual strategic plans is expected to be ready by the end of May. Sandmeyer said the most successful strategic plans to date have been those that followed the initial guiding principles spelled out by the UPC. These principles are in line with Penn State's mission as a land-grant institution and its priorities in educating students. Plans stressing diversity, internationalization, interdisciplinary work and a focus on quality, selectivity and depth were well-received. Strategic blueprints that provide data (both internal and external) to support decisions and those that supplied concrete goals and ways to measure these goals were deemed especially well constructed by the UPC.

Most people in attendance expressed a desire to understand how the process was working and to find out what types of data were being used to make decisions. Some participants said they came because they were skeptical of the process and wanted to know if the decisions were being made from the top down, or the bottom up.

Council members said the 30 strategic plans they have seen to date vary in the manner in which they were compiled. The process for some academic departments — is an example — began within that unit and then gradually progressed to the college level. In other

cases, the process may have started at the dean's level and worked its way down. In still other areas, the process was simultaneous, working from top to bottom and bottom to top until agreement was reached.

UPC members stressed that long-term strategic planning is not an easy task for any unit.

"It is our role to help provide balance by looking at things from a broader vantage point," said Betty Roberts, assistant vice president for Business Services and UPC member. "We are looking at these plans from a University-wide perspective and addressing questions like whether providing certain services centrally rather than dispersed would be more beneficial to the entire University. You can't be all things to all people. You have to focus on your core mission."

As part of that process, UPC member Peter Jurs said the council has consistently looked at proposed changes in terms of their effects on students. Jurs stressed that not only financial data is being scrutinized. He said the data underlying the planning process includes enrollment numbers, information on shifting usage patterns, the number of faculty involved in particular areas, needs assessments and comparative data from peer institutions.

Attendee Bill Huston, who held a copy of the strategic plan from his unit — the Office of Student Affairs, indicated that while the planning process has forced units to look at areas and programs they may have otherwise overlooked, it is also requiring them to make some tough choices.

"In addition to looking at areas that need improvement, we have also had to look at areas where the demand for certain services will not decrease," he said. "It is a challenge."

Virginia Olexy from Pattee Library sought reassurances from the UPC members that short-term gains made now through the UPC process would not have long-term costs or repercussions associated with them.

"We promise to keep your voices in the back of our heads," Sandmeyer said.

The strategic plans from all colleges, units and campuses will be open to the public in Pattee Library on the University Park campus by the end of the spring semester. The UPC invites continued comments from the University community via e-mail at response@psu.edu.

About the process:

Through the UPC process, academic and administrative units will reallocate funds, with the administrative units being asked to give back more than academic units. The planning process is being used to identify academic priorities and to provide a boost to those areas. Some of these priorities will be University-wide initiatives, while other funds will be returned directly to the academic colleges.

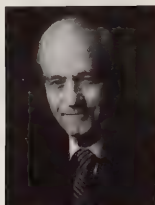
LECTURES

Stone Memorial Lecture focus will be microbiology

Ralph S. Wolfe, professor of microbiology at the University of Illinois at Urbana-Champaign, will present the 1997 Stone Memorial Lecture at 4 p.m., Monday, April 7, in 110 Wartik Laboratory on the University Park campus.

The lecture, sponsored by the Department of Biochemistry and Molecular Biology, is titled "My Kind of Biology—Challenges of the Hunt."

Wolfe, known for his broad interest in microbial diversity, heads a laboratory known for its role in the discovery of seven new coenzymes important in the biological formation of methane. His laboratory also is known for its research on the biochem-



RALPH S. WOLFE

istry of methanogenesis and for its collaboration with Carl Woese of the University of Illinois on the discovery of the Archaea, the third branch of life.

He received the Carski Distinguished Teaching Award in 1971, the Abbott Lifetime Achievement Award in 1996 from the American Society for Microbiology and the Waksman Award

in Microbiology from the National Academy of Sciences and the American Academy of Arts and Sciences. He has been a faculty member at the University of Illinois since 1953.

The lecture honors Robert W. Stone, head of the former Department of Microbiology for 23 years.

Civil rights in America and Australia contrasted April 7

James Thomson, a senior legal adviser to the attorney general of Western Australia, will present a seminar on "Civil Rights and Constitutionalism: Contrasting Australian and American Experiences" at 3:45 p.m., Monday, April 7, in 102 Weaver Building on the University Park campus.

In addition to his position in the Crown Solicitor's Office in Western Australia, Thomson holds appointments at the University of Western Australia and Murdoch University law schools. He has represented Aus-

tralia at overseas negotiations that have ranged from human rights to the law of the sea, and he holds a master's and doctoral degrees from Harvard and also visiting researchships at Harvard and Columbia.

The lecture, which is open to the public, is being co-sponsored by the Australian-New Zealand Studies Center and the Department of Political Science. For more information, contact Pat Corbett by e-mail at pac9@psu.edu or by phone at (814) 863-1603.

Eberly College of Science heads interim dean

Howard Groth, professor and head of the Department of Physics, has been named interim dean of the Eberly College of Science. Gregory L. Geoffroy, current dean of the college, recently announced he will become vice president for academic affairs and provost of the University of Maryland at College Park effective June 1.

"I have asked Dean Geoffroy and Dr. Groth to use the remaining time before Greg's departure to help bring Howard up to speed so that the college can continue moving forward during this interim period," John A. Brighton, execu-

tive vice president and provost, said. "We have many important projects taking place in the college and we will begin to gear up for the coming academic year, even as this one ends. Howard's work will be invaluable in keeping us on track."

Groth is a specialist in quantum electrodynamics and elementary particle physics research. He conducts theoretical research on the structure of positronium, the Lamb shift and quarkonium. He joined Penn State in 1967 as a research associate and was named assistant professor in 1969,

associate professor in 1973 and full professor in 1974. He was appointed department head in 1988.

He is a Fellow of American Physical Society and a member of Phi Beta Kappa and American Association of Physics Teachers. In 1995, he received the Distinguished Service Award of the Eberly College of Science Alumni Society.

A search committee, chaired by John A. Dutton, dean of the College of Earth and Mineral Sciences, has been appointed to identify candidates for the dean's position.

University hosts global conference on open, distance education

The University Park campus will be transformed into an international village June 2-6 when more than 1,000 educators and professionals from around the world gather for the 18th World Conference of the International Council for Open and Distance Education (ICDE).

The University joins the ranks of Oslo, Norway; Caracas, Venezuela; Bangkok, Thailand; and Birmingham, England, as a host site for an ICDE world conference. These conferences are held every other year.

The theme of the 18th ICDE World Conference is "The New Learning Environment: A Global Perspective." Five renowned speakers and more than 700 educators and professionals from 68 nations will present their research and participate in discussions during the five-day conference.

Gary Miller, assistant vice president for distance education at Penn State and conference program chairman, said the weeklong event will be an intensive discussion and interaction examining the implications of technology on the new learning model that is emerging worldwide.

The International Council for Open and Distance Education is the world association of open and distance learning institutions and professionals and of national and regional open and distance education associations. Representatives from more than 100 nations are members of ICDE, which has headquarters in Oslo, Norway. ICDE is affiliated with the United Nations through the U.N. Educational, Scientific, and Cultural Organization (UNESCO).

Each day of the conference will feature plenary presentations and discussions, poster and orientation sessions on one of four key themes:

— "The Changing Technological Environment;"

— "The New Educational Paradigm;"

— "Technology, Education and Sustainable Development;" and

— "Opportunities for International Cooperation."

These themes will be examined within the context of 10 interest areas, some of which are: primary through secondary school applications; technology applications and emerging technologies; and partnerships and alliances.

Conference papers will be made available to participants in electronic format (computer disk and CD-ROM). In addition, selected papers will be published in an anthology on the theme of the conference. Conference sessions will be held at The Bryce Jordan Center. A Technology Exhibition, showcasing the latest in video, computer and communications technologies, also will be presented in conjunction with the conference. A number of preconference sessions also are planned in association with the 18th ICDE World Conference.

Accommodations for participants include the 18th World Conference International Village, which is being created for the conference, and the Penn State Conference Center and Nittany Lion Inn. The International Village will offer a 24-hour guest services desk and multilingual staff to assist conference participants and their traveling companions and families. There also will be free bus transportation during the conference.

For more information about the conference, visit the Web at <http://www.cde.psu.edu/ICDE/brochure>; or contact Anne Stevens about program content at (814) 865-2143; fax: (814) 865-3290; e-mail: abs4@cde.psu.edu; or Janet Patterson (about registration) at (814) 863-5127; fax: (814) 863-5190; e-mail: ICDE97@cde.psu.edu.

Agricultural Sciences seeks department head

The College of Agricultural Sciences is inviting applications from individuals with outstanding leadership qualities for the position of professor and head, Department of Agricultural and Extension Education. The vision of the department is to be a leader nationally and internationally in preparing formal and nonformal educators in agricultural education, extension education, international agriculture, and youth and family development.

The previous department head, Katherine Fennelly, left the University to assume the position of dean and director of the Minnesota Extension Service at the University of Minnesota.

Reporting to the dean of the college, the professor and department head will provide visionary leadership and effective administration of this multi-disciplinary unit.

Specifically, the professor and department head will:

- Encourage diversity of ideas, people and programs;
- Develop faculty and programmatic excellence in resident education, research and extension;

— Take an active role in college and University affairs and professional organizations;

- Establish and enhance collaborative relationships with universities, state and national organizations and agencies, and business and industry;
- Secure and manage resources on behalf of the department; and

- Continue personal involvement in scholarly activities.

Qualified candidates must have a doctoral degree in any of the following areas: agricultural education, vocational education, extension education, family and consumer science, family studies, or a closely related interdisciplinary field. Demonstrated visionary leadership and team-building philosophy are essential, along with evidence of effective teaching, research and service. Prior administrative experience is desirable.

Candidates should send a letter of application that addresses administrative and leadership philosophy and relevant experience, and a curriculum vitae. The candidate also should have three individuals submit letters of reference to: Dennis C. Scanlon, chair, advisory search committee, Department of Agricultural and Extension Education, 337 Agricultural Administration Building, Box INT, University Park, PA 16802.

Inquiries/nominations may be sent to Scanlon; telephone: (814) 863-7852; fax: (814) 863-7531; e-mail: dennis.scanlon@ags.cas.psu.edu or dscanlon@psu.edu.

Deadline for application is May 15, or until the position is filled. Penn State is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.



Hands-on learning

Engineering students Ashley Barnes and Jim Clark use a lathe in The Learning Factory, one of the College of Engineering's many facilities on the University Park campus which will be accessible to spectators during the April 5 open house.

Engineering open house set for April 5

Approximately 2,500 high school students and their families are expected to attend the 1997 College of Engineering Open House on Saturday, April 5, from 9 a.m. to 3:30 p.m. at University Park. The event is open to the public and provides visitors with the opportunity to see demonstrations and working displays throughout the college—including a sailplane design and fabrication project, laser and holographic displays, and tours of the Artificial Heart Lab, the Brazeale Nuclear Reactor and the Aerodynamics Laboratories. All engineering departments will be open to visitors with faculty and students on hand to answer questions and discuss various majors.

One new student-run activity scheduled during the event is "The Nittany Newtonian," a soapbox derby race. Hosted by the Envisioneers, student members of the Leonhard Center for the Enhancement of Engineering Education at Penn State, the race begins at 11:30 a.m. and features cars from six engineering societies. The event will be held on the walkway from Old Main to College Avenue.

Engineering Open House registration and general information will be on the first floor of Kunkle Activities Center, the glassed-in area at the east end of Hammond Building. For additional information, contact Geri Stonebraker at (814) 863-3750.

Private Giving

Major alumni gift to support MBA students

A major gift from two Penn State alumni will be used to support entrepreneurship among MBA students in The Smeal College of Business Administration.

The late John M. Ruffner and his wife, Marilyn J. Whitaker Ruffner, owners and developers of several companies in electronics and manufacturing, created the MBA fellowship fund through a donation of \$164,000 to the University.

Smeal College Dean J. D. Hammond said the gift will provide a significant boost to recruitment efforts that are becoming increasingly competitive.

John and Marilyn Ruffner were originally from western Pennsylvania, he from Jeanette, she from Pittsburgh. John Ruffner, who died in 1995, was a World War II veteran when he arrived at the University. The two met here in 1950 and were married in 1952. Marilyn earned her bachelor's degree in psychology in 1952, John in mineral preparation engineering in 1953.

"John and I decided to make this gift to Penn State in support of entrepreneurship due to our long-term experience in our own private business," said Marilyn Ruffner.

For the first 20 years of his professional career, John Ruffner held positions in sales and marketing, and in acquisitions for major, Boston- and New York-based firms. During this time, he continued his education and earned an MBA degree from the University of New Haven, Conn. A little more than a decade after his graduation, John Ruffner acted on his entrepreneurial impulses and launched his plan to become an independent busi-

nessperson. It wasn't long before his wife joined him on the management team.

Beginning with Delbridge Computing Systems in St. Louis in 1969, the Ruffners leveraged a series of corporate acquisitions that included Medprint Inc., St. Louis; Plasmad Inc., Wallingford, Conn.; Ronor Systems, Wallingford; Berkshire Transformer Co., Kent, Conn.; and Florida Electronics and Transformer Co., Sanford, Fla.

Delbridge, a printer of booklets for payroll tax computation and amortization schedules, later evolved into the holding company for all of the Ruffners' other business interests. Medprint was a printer of medical records systems. Plasmad manufactured hearing protection equipment for use by industry and the Department of Defense. Ronor Systems was a maker of underwater cable systems which were purchased by the Defense Department. Berkshire Transformer produced custom-made transformers, and Florida Electronics built electronic assemblies for industrial and aircraft use, as well as custom-made transformers. The staffs of these companies ranged from 35 employees to as many as 120.

John Ruffner served on the National Campaign Committees of the Campaign for Penn State, the University's first major capital campaign (1984-90). Marilyn Ruffner is active with the chapter of Penn State Alumni Association near her home in Florida. Two of the Ruffners' three children, John and Cynthia, earned their bachelor's degree from The Smeal College. Daughter Sandra completed her studies at the University of Washington.

Endowment fund nearly doubles in only five years

The total market value of Penn State's pooled endowment fund nearly doubled over the past five years, growing from \$217.7 million in 1991 to \$423 million as of Dec. 31, 1996. A report presented to the Board of Trustees March 21 by the treasurer's office credits the growth to new gifts and reinvested earnings.

Endowments provide a source of income that Penn State can depend on to meet some of its most critical academic needs. The annualized investment return of 11.1 percent for the fund over the past five years exceeded the long-term average of about 10 percent and represented a real return, after inflation, of 7.8 percent.

"To further of Penn State's strategic asset allocation goals, we are continuing to broaden diversification by increasing the proportion of the fund deployed internationally," said Gary C. Schultz, senior vice president for finance and business/treasurer. "We also are increasing our investments in 'alternative equities,' such as real estate, venture and private investments, and energy programs—which have increased to 12.5 percent of the endowment from 9.7 percent a year ago."

The University's endowment fund is a pooled investment of gifts. The University holds endowed gifts in perpetuity, investing them and spending only a portion of the total return for each endowment's designated purpose. The remaining return is added to the principal to protect it from inflation.



Check it out

As clocks move forward one hour Sunday, April 6, to mark Daylight-Saving Time, visitors to Pennsylvania College of Technology's Annual Open House will move forward and catch a glimpse of the future of work. The event runs from noon to 4:30 p.m. and offers an array of opportunities to see the latest in technology and education. Free to the public, the Open House regularly attracts about 15,000 visitors to the college's main campus in Williamsport, the Kathryn Wenzel Lumsley Aviation Center at the Williamsport Regional Airport in Montoursville, and the Herman T. Schneebell Earth Science Center near Allenwood. Penn College's North Campus in Weistown will be open as well, hosting its annual Hobby Day and Career Expo. For more information, call Penn College at (717) 326-3761, or the Office of Admissions at (800) 367-9222.

Faculty/Staff Alerts

Junior Education Day is May 10

The Third Annual Minerals and Materials Junior Education Day will be held on Saturday, May 10, in Steidle Building on the University Park campus. Registration for the event is \$2 per student and the day's activities are open to all grade-school children.

Minerals and Materials Junior Education Day introduces children to both the wonders of the mineral kingdom and the miracles of modern man-made materials. Grade-schoolers attending the education day will travel from station to station within the Penn State Mineral Museum. At each station, they'll be taught facts about minerals, rocks, fossils or man-made materials. Free samples of minerals and fossils will be given out and students will be shown how to begin a rock collection.

To register, contact one of the following: in Centre County, Frank Kowalczyk (814) 238-8874; in Blair County and points south, Craig and Karen Brandt (814) 695-6552; in Lock Haven and points north, Bob Carney (717) 893-2068 (day) or 726-7071 (evening).

Summer Intensive Language Institute accepting applications

Applications are currently being accepted for the Summer Intensive Language Institute which runs from June 9 to Aug. 1. These credit courses include the study of French, German, Italian, Japanese, Latin, Russian and Spanish and are conducted by the

departments of classics and ancient Mediterranean studies, comparative literature, French, German, Italian, Slavic and Spanish in the College of the Liberal Arts. With the exception of Latin, these programs are designed for individuals who want to develop oral proficiency in a foreign or second language.

For more information, call (800) PSU-TODAY or visit their Web site at <http://www.cde.psu.edu/C&I/IntensiveLanguage/>.

Bone marrow transplant support group formed at Hershey

A new Bone Marrow Transplant Support Group is being formed at The Milton S. Hershey Medical Center to meet the needs of patients, donors, their families and friends.

The medical center launched its new bone marrow transplantation program in October 1996, offering an alternative to patients who previously had to travel to Pittsburgh, Philadelphia or Baltimore for bone marrow transplantation.

Meetings will be held on the first Thursday of each month.

For more information contact Marion Markowicz at (717) 531-5433.

Office relocation

The Office of the Senior Associate Vice President for Finance and Business has relocated to 208 Old Main from its former location of 304 Old Main. The staff

relocating are William H. McKinnon, Arleen Bilger, Connie Bjalme, Vincent Carter, Peg Conrad, Robert Finley, Eugene Flynn, Janeen Grasser, Susan Otto and Cathy Shannon. Telephone numbers remain the same.

Videoconferencing room equipment upgraded; another room set up

The videoconferencing facility in room 120 University Support Building 2 at University Park has been upgraded with the latest group-system videoconferencing technology.

The upgrade includes a PictureTel Concorde 4500 system which delivers a high-performance videoconferencing service for conducting meetings and for use in applications such as telemedicine, distance learning, interviews and motion-intensive applications. In addition to many advanced features, the system also was upgraded to operate at dial-up speeds up to 384Kb, which provide even better video transmission.

Videoconferencing equipment also has been installed in room 105 University Support Building 2. The PictureTel system 4000 unit in this room also features the same dial-up speeds.

Both videoconferencing rooms are managed by the Office of Telecommunications and are available to faculty and staff. The rooms may be scheduled by calling (814) 863-8906. For more information, visit the Office of Telecommunications' Web site at <http://www.oltc.psu.edu/services/conference.html>, or contact an analyst at (814) 865-1940.

Appointments

New manager appointed for Emergency Medical Services

J. David Jones has been appointed Emergency Medical Services manager for University Health Services. Jones is responsible for the oversight of development of policies and procedures for EMS operations to include University Ambulance Service and Penn State special events.

Before joining University Health Services, Jones was station manager at Wilkins-Churchill Rescue One, where he managed the overall operation of ambulance and advanced life-support service to the municipalities of Wilkins Township and Churchill Borough.

Jones graduated with high distinction from Penn State in 1980 with a bachelor's degree in health and physical education. He also is a certified instructor in basic trauma, advanced cardiac and pediatric advanced life support and an Emergency Medical Technician instructor.



J. DAVID JONES

Lehigh Valley welcomes community relations coordinator

Denise Miller Rader of Allentown was recently appointed as community relations coordinator at Penn State Lehigh Valley. Her responsibilities include media relations, development and alumni affairs.

Rader, a six-year veteran of the Pennsylvania Department of Transportation's public relations office in Allentown, had coordinated the department's highway safety program in a six-county region and acted as a liaison for local and state police, the media and the community.

A 1989 cum laude graduate of Allentown University with a bachelor's degree in communications media, Rader also completed a summer communications internship at Lehigh Valley Hospital in 1989.



DENISE MILLER RADER

Altoona names new director of University Relations

Shari Robbins Routh has been named director of University Relations at Penn State Altoona. In this position she will be responsible for organizing and conducting a program of public information through the news media and providing effective public relations regarding the achievements, plans and prospects of Penn State Altoona. In this capacity, she will support the development and fund-raising efforts of the campus with appropriate publications and special events.

Before joining the Penn State Altoona staff, Routh worked as an attorney at the law firm of Evey, Routh, Black, Dorezas & Magee. She is graduate of the University of Virginia School of Law, where she received a juris doctor degree, and Lehigh University, where she received a bachelor of arts degree in government and was honored as a member of Phi Beta Kappa.

Routh has devoted much of her time to the community, serving as a board member of the Rotary Club of Altoona-Sunrise, and as the solicitor for the Altoona Symphony Orchestra.



SHARI ROBBINS ROUTH

BOOK SHELF

It has been nearly 30 years since a comprehensive book examining the complex field of turbomachinery has been released. To fill this void, **Budugur Lakshminarayana**, Evan Pugh professor of aerospace engineering, authored the book *Fluid Dynamics and Heat Transfer of Turbomachinery*. This 832-page volume is the first of its kind to shed light on modern advances in the field.

Published by John Wiley Publishers, Lakshminarayana's book gives a unified treatment of the basic principles and aspects of fluid dynamics, providing a "detailed, step-by-step presentation of the analytical and computational models involved." A systematic approach, undertaken with more than 300 illustrations, is used in developing the knowledge base, drawn from more than 900 references. The author drew on his more than 30 years of teaching experience and his experience in research and consulting in the field.

Jack Selzer, associate professor of English, is the author of *Kenneth Burke in Greenwich Village: Conversing with the Moderns, 1915-1931*, published by the University of Wisconsin Press.

In the book, Selzer shows how Kenneth Burke, who has been hailed as the most significant theorist of rhetoric since Cicero, contributed to the modernist conversation in Greenwich Village. Selzer draws on an array of letters between Burke and his modernist friends and on the memoirs of his associates to create a portrait of Burke, who as an associate editor of *Others* magazine saw T.S. Eliot's "The Wasteland" into print for the first time. Burke also published editorial services for Thomas Mann, e.e. cummings, Ezra Pound, and many other writers of note.

Selzer also is editor of *Understanding Scientific Prose and Conversations: Reading for Writing*.

Adam J. Sorkin, professor of English, Delaware County campus, published *The Sky Behind the Forest*, a selection of 60 poems by the contemporary Romanian poet Liliana Ursu. The book was translated in a triple collaboration with both Ursu and American poet Tess Gallagher. Ursu served as Fulbright lecturer in the Department of Slavic and East European Languages at the University Park campus during the 1992-93 academic year. The 96-page volume has an introduction by poet Brenda Hillman, as well as translator's notes by Gallagher and Sorkin. *The Sky Behind the Forest*, Sorkin's fifth book of Romanian translations since 1992, was published in Newcastle upon Tyne by Bloodaxe Books, the U.K.'s most active publisher of contemporary poetry.

Humanities Librarian **Lynne M. Stuart** and former documents Librarian **Dena Holiman Hutto**, now a documents/social science librarian at Reed College in Portland, Ore., have co-edited *The Changing Face of Reference* (Jai Press Inc., 1996). This book seeks to identify and describe the causes and effects of

changes that have forced librarians to re-examine reference service. Its contributors see these changes as opportunities to create new ways of providing assistance and instruction, to reach out to new groups of library users and to embrace new technologies. Contributors to this monograph recognize that because librarians are moving from a collection-based to a service-based orientation, they are in a unique position to redefine the role and function of libraries in the larger information environment.

Penn State librarians contributing chapters to this book include **Sally Kalin**, acting assistant dean of Collections and Reference Services and Information and Access Services; **Catherine Lee**, head librarian at Penn State DuBois campus; and **Carol Ann Wright**, general reference librarian.

Blend globalization, change and opportunity with leadership and learning and you get competitive advantage. That's the conclusion of **Albert A. Viciere**, Smeal College associate dean for executive education, and **Robert M. Fulmer**, College of William & Mary, in their new book, *Crafting Competitiveness: Developing Leaders in the Shadow Pyramid*.

The authors describe how benchmark companies are addressing the challenge of crafting competitive advantage through investment in strategic leadership development. Through models, frameworks, assessments and examples, Viciere and Fulmer provide an outline for designing leadership development processes that the co-authors believe can make a significant difference for organizations in the global marketplace. The co-authors attempt to answer a wide range of questions by profiling the strategic context for leadership development, showing organizations how to design world-class leadership development initiatives, assess development methodologies, select effective providers and assess the impact of leadership development programs.

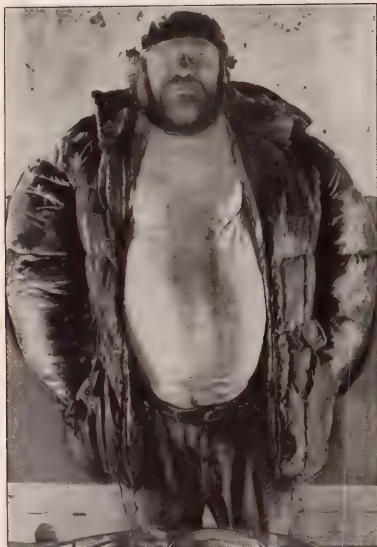
Crafting Competitiveness: Developing Leaders in the Shadow Pyramid was first released in the United Kingdom by Capstone Publishers and will be published in North America this fall by Harvard Business School Press. Script Publishing, the Netherlands, will issue a Dutch version.

Stanley Weintraub, Evan Pugh professor of arts and humanities, is the author of a new biography published in London by John Murray titled *Albert: Unworn King*.

Weintraub's biography of Albert, the husband of Queen Victoria, reveals the extent to which Albert actively interfered in the affairs of government of his adopted country. As an unwelcome foreigner, Albert succeeded in achieving dominance over his willful wife, refusing to play an ornamental role, and in the process transformed the British monarchy. The book will be published in the United States in early June by Free Press. Weintraub published *Queen Victoria's biography* in 1987.

The ARTS

AT PENN STATE



On display

This oil on canvas by American artist Jerome Witkin, titled *Jeff Davies*, is part of the Palmer Museum of Art's permanent collection. The work is a gift of the American Academy and Institute of Arts and Letters, Hassam and Speicher Purchase Fund. It can be viewed in the museum's Pincus Gallery of Contemporary Art.

Pianist to present recital

Pianist **David Buechner** will present a free Yamaha Concert Artist recital at 8 p.m. Friday, April 4, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

Buechner has been described as one of America's most exciting and innovative pianists. He is a graduate of the Juilliard School and the Manhattan School of Music. In his 20s, Buechner won major prizes at most of the world's prestigious piano competitions. He is a member of the faculties of New York University and the Manhattan School of Music, where he lectures in piano literature in addition to his teaching of piano and chamber music. He plays the Yamaha piano exclusively.

Piano and trumpet duo

Courtney L. Mundy, pianist, and Matthew Alercia, trumpet, will present a free dual recital at 2 p.m. Saturday, April 5, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

Odyssey Through Literature

On the April 6 episode of *Odyssey Through Literature*, **Elizabeth Maxwell**, independent scholar and widow of international publisher **Robert Maxwell**, speaks about the world denied by the denial of the Holocaust.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WFSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://mickey.la.psu.edu/complit/odyssey/odyssey.htm>

Composers' concert set

The School of Music's Composers Concert will be held at 8 p.m. Sunday, April 6, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

The concert, which takes place every semester, presents new works by students of Penn State composition teachers **Paul Barsom** and **Bruce Trinkle**.

The concert is free to the public.

"Schubertiade" to honor composer

Pianist **Stephen Herbert Smith**, professor of music, and colleagues from the School of Music will present an evening of Franz Schubert's lieder and chamber music at 8 p.m. Monday, April 7, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

This "Schubertiade," as such evenings were called in the composer's lifetime, joins other concerts both locally and worldwide in honoring Schubert for the bicentennial of his birth in 1797. The evening will include the voices and the playing of a number of faculty members.

The concert is free to the public.

"Exotic Illusions"

"Exotic Illusions: Art, Romance and the Marketplace," premiering nationally when it opens on Tuesday, April 8, at the Palmer Museum of Art on the University Park campus, is an exhibition that challenges traditional definitions of "exotic," "primitive" and "authentic" as they relate to non-Western art and artifacts by exploring the role of consumers in the creation and distribution of such objects.

Conceived by The Heard Museum in Phoenix, "Exotic Illusions" was organized by the Smithsonian Institution Traveling Exhibition Service. "Exotic Illusions" will be on view until June 15.

Peter Welsh, curator of the exhibition and professor of anthropology at Arizona State University, will present a lecture on "Museums and the Culture of Commodities" on Thursday, April 24, at 7:30 p.m. in the Palmer Lipson Auditorium at the Palmer Museum of Art.

Scholars exhibit

The exhibition "School of Visual Arts University Scholars Program Exhibition" will be on display from Wednesday, April 9, to Wednesday, April 16, in the Zoller Gallery in the Visual Arts Building on the University Park campus.

The exhibition will showcase the work of four University Scholars in the School of Visual Arts. An opening reception will be held on Wednesday, April 9, from 7 to 9 p.m. in the Zoller Gallery.

Opera for lunch

Voice Students from the Penn State Opera Theatre will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, April 10, in the Helen Eakin Eisenhower Chapel on the University Park campus. The free 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

The Penn State Opera Theatre is directed by **Susan Boardman**, associate professor of music. The students will perform excerpts from professor **Bruce Trinkle**'s new opera, *Eve's Odds*. The libretto was written by **Jason Charnesky**, a doctoral candidate and teaching assistant in the Department of English.

Audience members may to take their own bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

One-man show

Dani Maseng will perform a one-man show, "Wasting Time with Harry Davidowitz," at 8 p.m. Thursday, April 17, in Kern Auditorium on the University Park campus. Written and arranged by this Israeli-born performer, the show takes the audience through Maseng's personal voyage, from Shabbat dinners with his grandparents, to a beatnik camp in Eilat, to 14 years with a Zen teacher and back to Judaism. The performance is sponsored by the Penn State Hill Foundation. For information, call (814) 863-3816.

ICE RHYTHMS

The Ice Pavilion will present "ICE RHYTHMS," an ice show directed by **Dena Yeagley** at 7:30 p.m. Friday, April 25, and Saturday, April 26, in the Greenberg Sports Complex on the University Park campus. The program will include solos by visiting national and international figure skating competitors, featuring **Michael Weiss**, current U.S. Nationals Senior Men's Silver Medalist and World Team member, representing the Washington Figure Skating Club. ICE RHYTHMS also will feature the junior pairs team of **Carissa Guild** and **Andrew Muldoon**, 1996 U.S. National Competitors, members of the 1997 World Junior Team representing The Philadelphia Skating Club and Humane Society, and the University of Delaware Figure Skating Club. Also included will be solos and group numbers by resident professionals and skaters from student and public programs.

Advance general admission tickets are \$5.50 for students/youth, and \$7.50 for adults. Advance tickets can be purchased at the Penn State Ice Pavilion main counter. Tickets purchased April 25 and 26 will be \$7 and \$9. Tickets are available by mail by calling (814) 865-4102.

Multi-media exhibit

The multi-media exhibit "The Otherside of the River" is on display in the Gallery Lounge at the Penn State Harrisburg campus through May 9. The original art works of five faculty members, **Kathy T. Hettinga**, **Catherine Porter Prescott**, **Donald John Forsythe**, **Christine A. Forsythe** and **Stephen Fieser**, all from Messiah College's art department, are featured.

University Awards Ceremony 1997

INTERCOM SPECIAL SECTION

These awards will be presented at the University Awards Ceremony beginning at 1:30 p.m. Sunday, April 6, at The Penn State Scanticon on the University Park Campus

April 3, 1997

Volume 4, Number 1

Atherton Award for Excellence in Teaching bestowed on four

Four University faculty members will receive the 1997 George W. Atherton Award for Excellence in Teaching. They are: John M. Cimbala, associate professor of mechanical engineering, University Park campus; Ellen Andrews Knott, associate professor of English, Abington College; Barry Kur, associate professor of theatre arts, University Park campus; and Lisa Williams Walton, assistant professor of business logistics, University Park campus.

The award, named after Penn State's seventh president, was established in 1989 as a continuation of the AMOCO Foundation Award. It honors excellence in teaching at the undergraduate level.

The award, named after Penn State's seventh president, was established in 1989 as a continuation of the AMOCO Foundation Award. It honors excellence in teaching at the undergraduate level.

Cimbala is recognized as a consistently outstanding teacher, with two teaching awards from the College of Engineering. He has developed and improved several undergraduate and graduate courses,

including the undergraduate fluid mechanics laboratory course, and has single-handedly built up the undergraduate fluid mechanics laboratory into one of the world's finest and most sophisticated.

To make the subjects he teaches come alive for the students, Cimbala provides World Wide Web pages for every course he teaches and also uses simple desk-top demonstrations that vividly illustrate fluid mechanics principles. "I have a very simple philosophy of teaching," Cimbala said. "I always teach from the perspective of the student. In every course, I ask myself the question, 'If I were a student sitting in this class, what would be the best way of presenting this material so that I would learn most effectively?'"



JOHN M. CIMBALA



ELLEN ANDREWS KNOTT



BARRY KUR



LISA WILLIAMS WALTON

Knott, who has also won a teaching award from the College of the Liberal Arts, has been described as the epitome of the scholarly teacher. She has translated her ongoing research in rhetorical theory and practice not only into two composition textbooks and a reader for developing writers, but also into her everyday classroom activities. Whether she is teaching the basics of expository writing, advanced composition, American literature, or English language analysis, she uses collaborative learning techniques to make sure her students are learning.

"Teaching," said Knott, "means organizing and presenting knowledge in ways that the students in the classroom can understand. It means bringing about change within the students. Teaching is hard, frustrating work, because change is never easy. Yet, when a breakthrough occurs, the student's joy of accomplishment is contagious, and the whole endeavor becomes enormously satisfying."

Kur, a nationally known teacher of voice and speech, has been described as knowledgeable,

confident, dedicated and effective. The voice and speech coach for all University Resident Theatre Company productions, Kur is the creator and director of the University Park Ensemble — an all-undergraduate troupe of actors who use the stage to instruct students and the public about campus life, AIDS, date rape, substance abuse and other issues relevant to their lives.

Kur says the ensemble's focus on interactive improvisation as well as scripted material enables students to move others toward positive action. "This alternative to lecturing has been risky and exhilarating," Kur said. "As it relates to a teaching philosophy, it has strengthened my belief that real learning begins when students are given the opportunity to give voice to their opinions."

Walton has won teaching and advising awards from The Smeal College of Business Administration and the University's Outstanding Woman Faculty Member Award. Over the years, Walton has experimented with a variety of teaching methods, including one that combines lecture, discussion and collaborative learning. She helped develop a one-of-a-kind logistics course that enables students to tour European companies and learn how they handle logistics — the movement of information and material from the supplier through the manufacturing process to final customer delivery. Her students have praised the quality of her performance and her extraordinary efforts in the classroom.

"Teaching is an activity aimed at the achievement of learning," Walton said, "practiced in such a passionate and enthusiastic manner as to instill within students the desire not only to learn but to actively participate in their learning. To be an effective teacher, one must love and be enthusiastic about teaching, explain course relevance to students, develop innovative curricula, use diverse teaching styles, promote active student learning and care about students and their development of knowledge and character."

The following writers from the Department of Public Information contributed to this special section:

Kim Bierly, Paul Blum, Vicki Fong, Barbara Hale, Alan Janesch, Andrea Messer and Karen Wagner.

DeJong earns International Achievement Award

The International Achievement Award was established to recognize faculty and staff members who have contributed significantly to the international mission of the University through their research and teaching.

Gordon DeJong, distinguished professor of sociology and director of the graduate program in demography, has won the 1997 W. LaMar Kopp International Achievement Award. The award recognizes faculty and staff members who have contributed significantly to Penn State's international mission.

A Penn State faculty member for 33 years, DeJong and his research in demography have been a magnet for both domestic and international students. In 1987, he founded the graduate program in demography with six participating departments. The program now enrolls 55 students, 21 of whom are from developing countries. It is one of the largest graduate training programs in demography in the U.S. and is unique in its interdisciplinary and in offering both M.S. and Ph.D. degrees.

DeJong and his colleagues have received five successive Hewlett Foundation training and research grants in international demography which have provided tuition, stipend and dissertation research support for 56 international graduate students. The foundation also has provided support for short-term



GORDON DEJONG

residencies by returning Third World demography program alumni, an effort Hewlett has used as an example for other universities.

Over his career, DeJong has conducted research in Peru, England, Holland, Israel, the Philippines, Thailand and Romania. These projects have resulted in a book and nearly two dozen professional articles co-authored with Third World scholars. In the past 10 years, his training program grants and research program have supported on-campus visits of approximately 40 international researchers.

DeJong has been a senior fellow at the U.S. State Department's East-West Center in Hawaii, as well as a visiting faculty member at the Netherlands Graduate School in Demography.

He served a term as editor of *Demography*, the official journal of the Population Association of America.

He was previously honored with the Penn State Provost's Award for excellence in collaborative teaching and the Distinction in the Social Sciences Award. He also received distinguished alumni awards from Central College, Iowa, and the University of Kentucky.

Kirker, Turns cited for distinguished teaching

The 1997 winners of the Milton S. Eisenhower Award for Distinguished Teaching are **Constance Kirker**, assistant professor of integrative arts, and **Stephen R. Turns**, professor of mechanical engineering.

Kirker consistently earns outstanding ratings from her students at the Penn State Delaware County campus and has made profound contributions to her campus in internationalizing its curriculum and bringing multicultural perspectives to undergraduate studies.

She is responsible for developing two well-subscribed independent learning courses in Japanese and Chinese art history in addition to a cultures semester program with a core of six thematically-linked courses that have attracted Fulbright scholars from Hong Kong and Latin America.

"Teaching, for me, is like a box of 64 brand new crayons. There is no limit to what you can do with all that spectacular potential, just as there is no limit to what you may accomplish with all the varied faces in the classroom and the simply breathtaking beauty of all the world's art as your subject matter," Kirker said. Her guiding principle in developing the curriculum for 14 courses in the arts and diversity is to bring her excitement of the subject matter to her students.

Turns' contributions to the teaching mission of his department also have been many, with more than 15 years leading class discussions in Penn State's mechanical engineering department. He is the author of a recently published undergraduate textbook, *An Introduction to Combustion: Concepts and Applications*, that has received outstanding reviews and has been adopted by more than 25 schools in its first year of publication. Turns also has been instrumental in the development of experimental laboratories and as a role model to both undergraduate and graduate faculty.

According to Turns, his teaching approach is grounded in two fundamental beliefs: that the instructor's attitude toward his or her students is key to fostering a productive learning environment and that showing a genuine love and enthusiasm of the subject matter motivates the students to learn. Turns said providing various contexts for the subject matter is also important — applying engineering principles to real-world experiences.

In addition to learning the names of all of his students, even with enrollments up to 100, Turns provides his students with plenty of feedback, often answering questions and inquires with a hand-written note.

The Milton S. Eisenhower Award for Distinguished Teaching recognizes outstanding efforts among Penn State's tenured faculty, employed full-time for at least five years, with undergraduate teaching as a major portion of their duties. Milton S. Eisenhower was president of Penn State from 1950 to 1956.



CONSTANCE KIRKER



STEPHEN R. TURNS

Gallagher lauded for administrative excellence

James D. Gallagher, campus executive officer at Penn State Worthington Scranton campus, has been named the winner of the award for administrative excellence.

The Administrative Excellence Award is given annually to Penn State staff members whose performance methods and achievements exemplify administrative excellence.

Gallagher joined Penn State as a graduate teaching assistant in 1959 and became a full-time instructor the following year at Penn State Erie, The Behrend College. In 1963, he transferred to University Park where he rose to the rank of associate dean in charge of health, physical education and recreation programs at the campuses. Since 1979 he has served as the campus executive officer for Worthington Scranton.

During his tenure, Gallagher has been credited with providing leadership and direction to all spheres of campus operations. In excess of \$2 million in donations has been raised and the number of scholarships has increased from 30 to more than 100. Campus enrollments also reached an all-time high of 1,425 for the current academic year.

A visionary who embraces change, Gallagher was supportive of the Plan for the Commonwealth. His enthusiasm for developing four-year programs caught on quickly and several are well under way. Nursing, occupational therapy and human development and family studies are three recent additions to the campus curriculum.

Gallagher has been active in a number of community activities. He currently serves on the board of trustees for the community medical center, as well as a private industry council for job training partnership.

At all levels of the institution, those that have come in contact with Gallagher admire his knack for team building.

One colleague sums it up this way: "He involves the campus community in all phases of planning and consistently makes judicious decisions based on our input."



JAMES D. GALLAGHER

Morrow and Bartlett garner honors for advising

The 1997 Excellence in Advising Awards will be presented to Linda Morrow and A.L. "Bart" Bartlett. The award acknowledges excellence in advising, academic and career guidance and assistance to students in decision making and goal setting.

An academic adviser at the Health and Human Development Undergraduate Advising Center since 1987, Morrow's primary focus has been on "pre-major" advising for students in the College of Health and Human Development who want to major in nutrition or biobehavioral health. She is adviser to countless students who come in contact with her at a potential turning point in their academic careers, including high school seniors, first-year students, sophomores who haven't declared a major, prospective transfer students and graduates of other programs considering a career change.

In her role as career mentor and nutrition instructor, Morrow teaches two, one-credit courses that prepare students to apply for dietetic internships and explore career opportunities in nutrition. She also serves as the faculty adviser for the Phi



LINDA MORROW



A.L. "BART" BARTLETT

Upsilon Omicron and Kappa Omicron Nu honor societies. Kappa Omicron Nu recently presented her with its Adviser Award of Excellence in addition to honoring Penn State for best chapter.

"An academic adviser is, above all, an educator; I try to teach the strategies that will help a student reach his or her academic goals," Morrow said.

Bartlett, or "Bart" as his students and colleagues call him, has been a Penn State faculty member in Hotel, Restaurant and Institutional Management (HRA&IM) for 15 years. From the beginning, student advising has been an important part of his job. Bartlett spends 15 to 20 hours a week guiding students along their academic and career paths.

For 14 years Bartlett has been the faculty adviser to the Penn State Hotel and Restaurant Society, which is the largest of the student organizations in HRA&IM. He served as adviser to the National Society of Minorities in Hospitality and is a member of the Lesbian Gay Bisexual Support Network. Drawing from his business expertise in human resources, Bartlett's class discussions on diversity in the workplace have led many students to seek his advice outside of class.

Bartlett also offers an annual workshop on resume preparation and interviewing for hospitality jobs.

"I try to be approachable and open to students," he said. "I like to think that they also find me easy to talk to."

Equal Opportunity Award goes to multicultural center counselor

Elisha Nixon, counselor at the Multicultural Resource Center, is the 1997 recipient of Penn State's Equal Opportunity Award.

The Equal Opportunity Award recognizes a University faculty or staff member who promotes the concept of equal opportunity through affirmative action and/or contributes to enhancing the educational environment of the University through improving cross-cultural understanding.

Nixon has been honored for her professional and personal advocacy efforts on behalf of diversity. The Multicultural Resource Center serves more than 3,000 students a year and is dedicated to providing academic and personal counseling to students of color at Penn State. In addition to her regular duties, she has constantly developed and implemented new initiatives such as the MRC student advisory board, the center's participation in Parents Weekend and "Conversations With Faculty."

Her efforts also extended throughout the entire University with the development of a Diversity Health Fair and Unity Days, an annual program started in 1995 to build coalitions through education, awareness and cultural sensitivity. The Unity Days program includes collaborative activities, speakers and films, as well as a "PAWS



ELISHA NIXON

across Penn State" ceremony at the University Park campus.

Nixon is co-founder of the African American Community Organization, formed to support area African American children through educational and social activities. In 1993, she created a Saturday afternoon tutoring program for State College children, titled "Together We Can," with Penn State students as tutors.

The parent of three children, she has pursued a master's degree and is now seeking a doctorate in health education. But she still has found time to plan and participate in special recognition services each year for graduating African American students and their families. She also helped start a support group for African American women faculty and staff members at the University.

McKay Donkin Award presented to mechanical engineering's Heinsohn

The McKay Donkin Award will be presented to Robert Jennings Heinsohn, professor of mechanical engineering.

The award was established in 1969 in honor of the late McKay Donkin who served as vice president for finance and treasurer of the University from 1957 to 1968. It is presented to the full-time member of the faculty or staff or the retiree who has contributed most to the economic, physical, mental or social welfare of the faculty at Penn State.

Heinsohn received his bachelor's degree in mechanical engineering from Rensselaer Polytechnic Institute, Troy, N.Y., in 1954; his master's degree in mechanical engineering from the Massachusetts Institute of Technology in 1955 and his doctorate from Michigan State University in 1963.

He joined the Penn State faculty in 1963 as an assistant professor and in 1966 was promoted to associate professor, a title he held until 1977 when he



ROBERT JENNINGS HEINSOHN

was name professor. For the past 10 years Heinsohn has devoted one-third of his time to serve his department as the graduate adviser and also as the undergraduate program coordinator. He has chaired many departmental committees and also was the department's acting head from January 1994 to January 1995.

He also served in leadership positions at the college level, having chaired its Science, Technology and Society program and was the chairman of the college's Economic Opportunity Program and adviser to the Development Year Program.

Heinsohn has served in the Faculty Senate for more than 20 years. His fellow senators in the College of Engineering elected him as chairman of the Caucus of Engineering Senators and as their representative on Senate Council from 1991 to 1994, at which point he was elected by his fellow senators to serve as Senate secretary.

University Awards Ceremony 1997

These awards will be presented at the University Awards Ceremony on Sunday, April 6, at The Penn State Scanticon on the University Park campus.

Student awards will be presented at 1:30 p.m.; faculty and staff will receive their awards beginning at 4 p.m.

Five earn Faculty Scholar Medals for achievements

Five Penn State professors will receive 1996-97 Faculty Scholar Medals for Outstanding Achievement.

They are: **Robert N. Proctor**, professor of the history of science, for the Arts and Humanities Medal; **Tarasankar DebRoy**, professor of materials science and engineering, for the Engineering Medal; **Joanna Floros**, professor of cellular and molecular physiology and pediatrics, for the Life and Health Sciences Medal; **Jayanth R. Banavar**, professor of physics, for the Physical Sciences Medal, and **Linda M. Burton**, professor of human development and family studies and professor of sociology, for the Social and Behavioral Sciences Medal.

Established in 1980, the award recognizes scholarly or creative excellence represented by a single contribution or a series of contributions around a coherent theme. A committee of faculty peers reviews nominations and selects candidates.

Proctor's study of the intersection between science and public policy has won him international recognition. His three books, *Racial Hygiene: Medicine Under the Nazis*, *Value-Free Science? Purity and Power in Modern Knowledge and Cancer Wars*, and *How Politics Shapes What We Know and Don't Know About Cancer*, have had considerable impact on public thought and policy.

He received his B.S. in biology from Indiana University in 1976 and an M.S. and Ph.D. in the history of science from Harvard University in 1977 and 1984 respectively. He was a visiting scholar at the Hamburger Institut für Sozialforschung in 1995 and J.B. and Maurice C. Shapiro Senior Scholar-in-Residence, U.S. Holocaust Memorial Museum, Washington, D.C., in 1994.

Proctor was an instructor and teaching fellow in the departments of biology, history of science and Afro-American studies at Harvard University from 1976 to 1984 during which time he was also a Fulbright Scholar at the Free University of Berlin. In 1986 he became a faculty member and chair of the program in science, technology, and power, Eugene Lang College, New School for Social Research, N.Y. He came to Penn State in 1990 as an associate professor in the department of history and in 1993 he became professor.

DebRoy will receive his award for a series of interconnected works which, taken as a whole, provide a quantitative basis for understanding fusion welding processes and a scientific standard for other researchers. His unique approach to solving complex welding problems based on physical and mathematical modeling is thorough and creative.

He received his B.E. in metallurgical engineering from the Regional Engineering College, Durgapur, India, in 1969 and his Ph.D. in 1974

The Faculty Scholar Medals for Outstanding Achievement recognize scholarly or creative excellence represented by a single contribution or a series of contributions around a coherent theme.

from the Indian Institute of Science, Bangalore.

He received the Adams Memorial Membership Award for outstanding teaching from the American Welding Society in 1992, the Wilson Research Award from the College of Earth and Mineral Sciences in 1993, and the American Welding Society's McKay Helm Award for best technical paper on welding of steels in 1994. He is a Fellow of the American Society for Metals.

He came to Penn State in 1980 as an assistant professor, was named associate professor in 1984 and professor in 1989.

Floros is an international leader in the study of lung surfactant proteins. She has pioneered the use of molecular biology and molecular genetics tools in the understanding of the regulation of surfactant protein genes, lung development and the genetic basis of neonatal respiratory distress syndrome (RDS).

She received her B.A. in biology from Northeastern University in 1974 and her Ph.D. in pathology from Temple University School of Medicine in 1980. In 1996 she received a merit award from the National Institutes of Health, and in 1988, she received a Genentech/American Lung Association Career Investigator Award. In 1996 she was profiled in *Who's Who in the American Thracic Society*.

She began her career as a research fellow in biological chemistry in 1980 at Harvard Medical School and by 1988, rose to the level of associate professor of pediatrics. She joined Penn State's Milton S. Hershey College of Medicine in 1991 as professor of cellular and molecular physiology and became professor of cellular and molecular physiology and pediatrics in 1996.

Banavar has solved a set of fundamental, long-standing problems involving fluid motions at the molecular scale and in the continuum limit using computer simulation techniques. His work has opened the pathway to understanding fluid properties at short-length scales, and highlighted how state-of-the-art computer technology can solve fundamental scientific problems.

He received his B.Sc. and M.Sc. in physics from Bangalore University, India, in 1972 and 1974 respectively. He received his M.S. and Ph.D. in physics from the University of Pittsburgh in 1975 and 1978 respectively. He is a Fellow of the American Physical Society.

He began his career as a research associate at the University of Chicago in 1978. In 1981 he became a member of the technical staff at Bell Laboratories and in 1983 a member of the professional staff at Schlumberger-Doll Research. He joined Penn State in 1988 as associate professor of physics and materials research and became professor in 1991.

Burton's studies of African American families have contributed insights and significantly impacted the field. She is one of the premiere family sociologists in the U.S.

She received a B.S. in gerontology, and an M.A. and Ph.D. in sociology from the University of Southern California in 1978, 1982 and 1985 respectively. In 1996 she received an American Family Therapy Academy Award for Innovative Contributions to Family Research and a "Products of Compton" Award from the City of Compton, Calif., and Compton Coalition for Progress. In 1987 she was named a Brookdale National Fellow and in 1988 a Fellow at the Center for Advanced Study at Stanford University.

Burton was an instructor in the University of Southern California from 1981 to 1984 and a demographic researcher for the Seismic Safety Commission in Los Angeles from 1982 to 1983. In 1984 she joined the Penn State faculty as assistant professor of human development and family studies and, in 1990, became associate professor of human development and family studies and a senior research associate in the Population Issues Research Center. In 1993 she became professor of human development and family studies and sociology.



ROBERT N. PROCTOR



TARASANKAR DEBROY



JOANNA FLOROS



JAYANTH R. BANAVAR



LINDA M. BURTON

Zelis recognized as mentor to fellow faculty members

Robert Zelis, professor of medicine and cellular and molecular physiology at The Milton S. Eshelby Medical Center, has been chosen to receive the 1997 Howard B. Palmer Faculty Mentoring Award.

The Palmer Faculty Mentoring Award recognizes faculty members who most effectively promote the medical and professional development of junior faculty.

Dr. Zelis, director of cardiology research at the medical center, came to Penn State in 1974 as professor of medicine and physiology and chief of the Division of Cardiology. His research areas are circulatory physiology, congestive heart failure and teaching techniques. Dr. Zelis' professional achievements include at least 330 publications, service on the National Institutes of Health Experimental Cardiovascular Sciences Study Section and the National Grant Review Committee of the American Heart Association.

Past president of the American



ROBERT ZELIS

Federation for Clinical Research, Dr. Zelis has been elected to the Association of American Physicians and selected for inclusion in *Who's Who in America*, *International Who's Who in Medicine*, *American Men and Women in Science* and *Who's Who in the World*.

A colleague and former student noted, "His ability to simplify and integrate complex

concepts rather than having students memorize facts has served as a teaching model for me over the years. I have received a number of teaching awards for my Introduction to Medicine course by using his philosophy. Dr. Zelis has been the ultimate mentor. Most importantly, he has remained a trusted colleague and dear friend."

The Palmer Faculty Mentoring Award is named for Howard B. Palmer, senior associate dean of the Graduate School of the University from 1985 until his retirement in 1991.

Staff Excellence Award recognizes Russoniello's long-term leadership

Maria J. Russoniello, director of University Relations at Penn State Worthington, Scranton campus, is the 1997 recipient of the University's Staff Excellence Award.

The Staff Excellence Award is given to a member of the University staff who has demonstrated and practiced the philosophy of continuous quality improvement, team spirit and managerial excellence, and provided leadership in establishing a quality service orientation in the performance of assigned duties.

Under Russoniello's leadership over the past 10 years, the campus has initiated a model Alumni Mentor Program for Campus Scholars, an active Lion Ambassador program and numerous outreach programs involving alumni and students. Her work with the campus alumni society has resulted in significant growth in membership and the addition of chapters in neighboring counties. This year, the alumni soci-



MARIA J. RUSSONIELLO

ety donated \$30,000 toward the establishment of a campus occupational therapy lab, as well as supporting many other academic and student activities.

Russoniello also helped to nearly triple the number of campus-based endowed scholarships to 19. In addition, she has been instrumental in increasing annual pri-

vate support.

She also has been honored for her community work, having served as chair of the board of directors for Leadership Lackawanna. She is vice chair of the Easter Seal Society of Northeastern Counties, and on the board of the Greater Scranton Chamber of Commerce and other groups. She has involved many Penn State students in a number of community projects and charitable services, such as serving food in local soup kitchens or educating elementary students about people with disabilities.

Avery's diverse duties earn her inaugural Support Staff Award

Juliet A. Avery, staff assistant to the director of academic affairs at the Penn State Worthington-Scranton campus, is the first recipient of the University's new Support Staff Award.

A Penn State employee since 1973, Avery has held her current position for 13 years. In addition to her regular duties, she maintains 10 priority budgets and handles all related paperwork, while hiring, training and supervising all wage payroll personnel and work-study students in the academic affairs offices at the campus.

Avery has long taken an active role in campus functions, chairing the campus Diversity Committee (the first non-faculty member to do so), serving on various committees such as the Focus Group on Advising and the Focus Group on Staff Review and Development Plan. Even with such a busy schedule, she found time to earn an associate and B.S. degree in rehabilitation services education. In the past 10 years she



JULIET A. AVERY

has participated in more than 20 certificate programs aimed at self-improvement, time management and career track seminars.

Past president of the Scranton Business and Professional Women's Club, she also chaired the Inter-mentship Media Loan Program for the Pennsylvania State Educational Office Professionals. She currently is a board member

for the Friends of the Library and chairman of professional development for the Northeast Pennsylvania Counselors Association.

Since 1982, she has received nine awards for professional excellence, including the Scranton Business and Professional Women's Club 1989 Woman of the Year and the 1993 Penn State Outstanding Office Professional Award.

Avery has been a volunteer worker with the American Cancer Society, American Red Cross, Pennsylvania Junior Academy of Science and Scranton State School for the Deaf. She also sings in the choir for St. Patrick's Church.

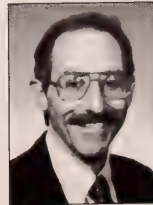
Nelson recognized with new President's Award for Excellence

Murry Nelson, professor of education and American studies and coordinator of graduate education, curriculum and instruction, will receive the first-ever President's Award for Excellence in Academic Integration this year.

The award was developed to recognize excellence in the integration of teaching, research and service.

President, Graham B. Spanier's primary goal is for Penn State to be the leading university in the nation in the integration of teaching, research and service.

During his 22 years as a member of the College of Education faculty, Nelson has consistently demonstrated excellence by weaving into his teaching the threads of his research as well as his professional and personal experiences. Nelson's research has focused on social studies, education, citizenship and society. His profes-



MURRY NELSON

sional/personal experiences have included serving local schools by switching places with a local fourth-grade teacher, serving on the school board and taking part in a local citizens education group.

"I have always viewed the University and its environs as a community, and my role in the community was to help make it a better place to live and

work," Nelson said. "Thus, my teaching is focused on enabling my students to provide the same kind of service as teachers/citizens in their own communities. My teaching of social studies education courses and of American studies courses are designed with the same goal in mind — that is, how have others improved their schools, their communities and the United States, and how can we work, individually and collectively, to do so?"

Malovhr honored with Barash Award for disarming suspect in autumn shooting

Brendon D. Malovhr, the Penn State undergraduate student credited with disarming the suspected assailant in a Sept. 17, 1996 shooting at University Park, is the 1997 recipient of the Barash Award for Human Service.

The family of the late Sy Barash created the annual award in 1975. It recognizes a full-time member of the Penn State faculty, staff or student body who has contributed most, apart from assigned duties, to human causes, public service activities and organizations for the welfare of fellow humans.

Malovhr, an undergraduate stu-



BRENDON D. MALOVHR

dent in aerospace engineering and a University Scholar, was among 14 people honored in November by the Penn State Board of Trustees for acts of heroism and exemplary service during the September sniper attack on the HUB lawn when one student was killed and another wounded.

Malovhr was returning to his dorm from class at the time of the mid-morning shooting. His act of bravery is credited with saving the lives of others who would have been walking on the HUB lawn paths a few minutes later.

Hall overcomes obstacles to excel as student

Joseph D. Hall, a retired U.S. Air Force non-commissioned officer who graduated from Penn State in December 1996 with a bachelor's degree in history and a 3.9 grade-point average, will receive the University's Outstanding Adult Student Award this year.

Hall, who plans to continue his studies and work toward a master's degree in history at Penn State, is an exemplary student who loves his studies and thrives on research projects. After a successful career in the military, he is now succeeding as a student, despite the concurrent challenges of raising a family and making an 80-mile round-trip commute to campus.

Hall has "a sharp intellect, an appreciation for learning, and a



JOSEPH D. HALL

drive to absorb as much as possible," said one of his professors. As an undergraduate in a graduate-level seminar, the professor said, Hall was one of the more active participants, "confidently adding information and points of interest or arguing an issue with students of a more advanced academic standing. He expresses himself clearly and

he writes well."

Hall feels that his hard work and success have had a positive influence on his high-school-age stepdaughter, who will begin her studies at Penn State this fall. Hall also believes his example has inspired other veterans, "who initially considered returning to school impossible," to enroll in college.

Ten to receive Graduate Assistant Awards

Ten students will receive Graduate Assistant Awards for Outstanding Teaching during the student awards reception.

The award, jointly sponsored by the Graduate School and the Office of the Vice Provost and Dean for Undergraduate Education, recognizes graduate students for superior teaching in the areas of physical science and engineering, life sciences, social and behavioral sciences and the arts and humanities.

The selection committee judges nominees on several criteria including effectiveness of their presenta-

tions, use of clear and fair evaluation procedures, accessibility to their students and sensitivity to individual differences in the classroom.

The 1997 winners are: James Anthony, mathematics; Brett D. Guenther, electrical engineering; Elisabeth A. Hale, ecology; Heather Hayton, comparative literature; Eric D. Johnson, mathematics; Paula Maccini, special education; Kelly Marsh, English; Jennifer M. Ritter, curriculum and instruction; Bruce Skaggs, business administration; and John J. Wall, psychology.

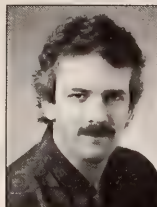
Ewing earns Graduate Faculty Teaching Award

Andrew G. Ewing, professor of chemistry, is the 1997 winner of Penn State's Graduate Faculty Teaching Award.

The award recognizes tenured faculty members who have excelled both in teaching at the graduate level and in supervising thesis work of graduate students.

A specialist in analytical chemistry and neurochemistry, Ewing helped develop Penn State's current course structure for analytical chemistry graduate students shortly after joining the faculty in 1984. From 1990 to 1995 he was his department's assistant head for graduate education and instituted new procedures that doubled the annual number of applications from domestic students. Currently, he is co-director of the neuroscience option in the new Integrative Bioscience Graduate Degree Program.

Ewing fosters his students' communications skills through a pro-



ANDREW G. EWING

gram of monthly "marathon" meetings in his home, weekly topic meetings on campus and "brainstorming" mini-meetings when and where the situation warrants.

The meetings combined with his personal interaction and attention to each student make for a highly productive research group that depends on collective brainstorming and interaction while encouraging independence.

Ewing also has been honored with the National Science Foundation Presidential Young Investigator Award, an Alfred P. Sloan Fellowship, the Dreyfus Teacher-Scholar Award, the Swedish Medical Council Visiting Scientist Fellowship and the Penn State Faculty Scholar Medal in Physical Sciences and Engineering.

He is a cum laude graduate of St. Lawrence University and earned his doctorate at Indiana University, Bloomington.

Harvey is slated to receive Alumni Teaching Fellow Award

Paul Harvey Jr., associate professor of history and classics and ancient Mediterranean studies at the University Park campus, will receive the University's Alumni Teaching Fellow Award.

Established in 1985 to honor distinguished teaching and to encourage teaching excellence, the award was first presented in 1986 by the Alumni Association, the Undergraduate Student Government and the Graduate Student Government.

Harvey is described as a superb teacher of ancient history and a valued mentor by undergraduate students, graduate students and faculty colleagues alike. His colleagues, in particular, praise Harvey for his encyclopedic knowledge and his ability to link ancient texts and issues to problems of



PAUL HARVEY JR.

modern society — for instance, using the economic and social impact of disbanding the Roman army in the 2nd century B.C.E. to illuminate similar problems created in modern times when war ends or armies shrink.

"I don't know that I have a formal teaching philosophy," Harvey said, "but there are certain

principles I attempt to maintain and certain practices I attempt to follow in my teaching. These include maintaining rigorous academic standards in every class while engaging students in a friendly informal fashion that encourages discussion and questions. In my experience, neither a false camaraderie nor an authoritarian stance is conducive to an effective learning environment, whatever the size of the class."

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Thursday, April 3
 School of Music, 8 p.m., Recital Hall. Faculty Recital presents James Lyon, violin.

Friday, April 4
 Kern Graduate Commons, noon, Kern Lobby. Concert titled "K Jazz."

■ Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "A Thousand and One Nights." For tickets, phone (814) 863-0255.

University Resident Theatre Company, 8 p.m., Pavilion Theatre. "The Lion in Winter" by James Goldman, directed by Christine Wilson, through April 12. For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. David Buechner, "Yamaha Concert Artist."

Saturday, April 5

■ Palmer Museum of Art, 11:30 a.m., Christoffers Lobby. Gallery Talk presents Katherine Benitz on "Italian Baroque Painting at the Palmer Museum."

School of Music, 2 p.m., Recital Hall. Student Recital presents Matt Alercia, trumpet, and Courtney Mundy, piano.

School of Music, 5 p.m., Recital Hall. Student Recital presents Kris Laird, tuba/euphonium.

School of Music, 8 p.m., Recital Hall. Student Recital presents Susan Bachman, trumpet.

Sunday, April 6

United Soul Ensemble, 5 p.m., Eisenhower Auditorium. "United With Praise."

School of Music, 8 p.m., Recital Hall. "Composer's Concert."

Monday, April 7

■ School of Music, 8 p.m., Recital Hall. Faculty chamber music concert, "Schubertian."

Tuesday, April 8

School of Music, 8 p.m., Recital Hall. Jazz II & III concert.

Wednesday, April 9

School of Music, 8 p.m., 122 Music II. Student Recital presents Melissa Harris, flute.

Thursday, April 10

School of Music, 8 p.m., Recital Hall. Mallet Ensemble with Dan Armstrong, director.

Friday, April 11

Kern Graduate Commons, noon, Kern Lobby. Concert titled "Bellamy's Trio."

Palmer Museum of Art, 2 p.m., Gallery Talk presents Robin Seymour on "The Stieglitz Circle."

School of Music, 8 p.m., Recital Hall. Student Recital presents Shawna Gluck, piano.

Saturday, April 12

Palmer Museum of Art, 11:30 a.m., Christoffers Lobby.

Gallery Talk presents Catherine Cilemi on "American Watercolors at the Palmer Museum."

School of Music, 2 p.m., 110 Music I. Children's Opera with Susan Boardman, director.

School of Music, 3 p.m., Recital Hall. Student Recital presents Erik Kirby, trombone.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Cleo LaIne and The John Dankworth Group."

SEMINARS

Thursday, April 3
 Landscape Architecture, 8 p.m., Colonial Room. The Nittany Lion Inn. Carol Johnson on "Variety in Landscape Architecture."

Friday, April 4

Physics, 2:30 p.m., SS Osmond Laboratory. Tania Slawicki on "Shear-Induced Structures in Aqueous Micellar Surfactant Solutions."

Biology, 2:30 p.m., 8 Mueller Laboratory. Richard Amasino on "Regulation of Flowering and Senescence in Arabidopsis."

Accounting, 3:30 to 5 p.m., 333 Beam Business Administration. Ken S. Cavalluzzo on "Competition and Cost Allocation Changes in Government Agencies: Evidence on the Federal Reserve."

Physics, 4 p.m., SS Osmond Laboratory. Tania Slawicki on "Doing Small Angle Neutron Scattering at NIST: Working in a Scientific Milling Pot."

Philosophy, 4 p.m., The Nittany Lion Inn. Drucilla Cornell on "Freedom for Women?"

Waynick Lecture Series, 8 p.m., 112 Walker. Charles L. Hostler on "Fifty-Five Years of Progress in Meteorology and a Look at the Future."



At the Palmer

Male and Female Chi Wara Headdresses from the Bamana people of Mali, Africa, and other pieces from the Wood Collection of the Heard Museum will be on display at the Palmer Museum of Art on the University Park Campus beginning April 8. The pieces are part of the "Exotic Illusions: Art, Romance and the Marketplace" exhibit, which will be on display through June 15.

Monday, April 7

■ Penn State Catholic Faculty and Staff Fellowship, noon to 1 p.m., 212 Eisenhower Chapel. J. Porter on "The Saints of Naples."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. Fred Charles on "Field Plot Comparison of Runoff and Soil Loss Effects for Four Tillage Treatments."

and Brian Leib on "Efficacy and Soil Distribution of Pesticide Applied via Drip Irrigation in a Vegetable Plasticiculture System."

Physics, 3:30 p.m., 339 Davey Laboratory. Farid Abraham on "Cracking a Tough Nut With a Big Computer: Studying Materials Failure Using Millions of Atoms."

■ Australia-New Zealand Studies Center and the Department of Political Science, 3:45 p.m., 102 Weaver. James Thompson on "Civil Rights and Constitutionalism: Contrasting Australian and American Experiences."

Biochemistry and Molecular Biology, 4 p.m., 110 Wartik Laboratory. Ralph S. Wolfe on "My Kind of Biology - Challenges of the Hunt."

Tuesday, April 8

■ Russian and East European Studies, 2:30 to 3:30 p.m., 124 Sparks. Frédérique Longuet-Marx on "The Political and Social Situation in the Northern Caucasus (Chechnya) Today."

■ Geoscience, 4 p.m., 112 Walker. Richard Peltier on "Dynamics of the Ice Age Earth."

Wednesday, April 9

Center for Women Studies, noon to 1 p.m., CWS Resource Room, 120 Boucke. Yvonne Raso and Shelley Hopkins on "Take Back The Night March."

Gerontology Center, 12:15 to 1:15 p.m., The Living Center, 110 Henderson. William J. Evans on "The Effects of Exercise and Aging on Body Composition and Functional Capacity."

Engineering Science and Mechanics, 3:35 p.m., 212 Hammond. Bradley A. Lerch on "Silicon Carbide/Titanium Composites."

Thursday, April 10

Gravity Center, 11:30 a.m., 339 Davey Laboratory. Charles Torne on "Quantum Fields at Any Time."

Ceramic Engineering and Sciences, 3 to 4 p.m., C213 Coal Utilization Laboratory. Linda Jones on "The Performance and Applications of Carbon: A Structural Perspective."

Physics, 3:30 p.m., 101 Osmond Laboratory. Farid Abraham on "Structure and Dynamics of Polymerized Tethered Membranes."

English, 7:30 p.m., 305 HUB. Carole Maso will read from her work.

Palmer Museum of Art, 7:30 p.m., Lipcon Auditorium. Jan Muhlet on "American Masters of the Watercolor."

Friday, April 11

The Institute for Policy Research and Evaluation, the Center for Health Policy Research and the Department of Health Policy and Administration, 1 to 2:30 p.m., The Living Center, Henderson. Cynthia Massie on "Long-Term Care: A Policy of Fragmentation."

CONFERENCES

Thursday, April 3

"Powder Metallurgy of Iron and Steel," The Nittany Lion Inn, through April 4.

Friday, April 4

"Communication in the Middle Ages," The Nittany Lion Inn, through April 5.

Pennsylvania Awareness Leadership Conference, The Penn State Scenic, through April 6.

Saturday, April 5

Communications, 9 a.m. to 4:30 p.m., Thomas Building. Sally Jackson on "Teaching and Learning with Technology Symposium."

Monday, April 7

"Enhancing Learning Through Cooperative Offering," The Penn State Scenic, through April 8.

Tuesday, April 8

Visible Emissions Training, The Penn State Scenic, through April 9.

Hewlett-Packard 5890 Maintenance, The Penn State Scenic, through April 9.

Wednesday, April 9

"Chart Your Course," The Penn State Scenic, through April 10.

Thursday, April 10

Pennsylvania Juvenile Correction Education Conference, The Penn State Scenic, through April 11.

Friday, April 11

Cocoa Research Conference, The Nittany Lion Inn, through April 12.

International Symposium on Confessionary Science, The Nittany Lion Inn, through April 12.

"Children's Literature Matters," The Penn State Scenic, through April 12.

Saturday, April 12

Zoning Law and Administration, The Penn State Scenic.

EXHIBITS

HUB Art Alley Panels

Oil and print exhibit by Amy Jane Whitney and Darren R. Gier, through May 4.

HUB Browning Gallery

"Photographs of Australia" by Richard Woldendorp, through April 27.

HUB Formal Gallery

Mixed media works by Howard Brooks, through May 4.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Photographic work of David Driscoll, through April 6.

North Halls

Paintings by Jodi Ruffner, through April 30.

Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 15.

"Exotic Illusions: Art, Romance and the Marketplace," through June 15.

Zoller Gallery

School of Visual Arts, "MFA Thesis Exhibitions," drawing/painting by Thomas Birker, through April 15.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>

Leaves of Absence

Leaves of absence are granted for purposes of intensive study or research that will increase the quality of the individual's future contribution to the University. The following leaves of absence have been approved:

College of Agricultural Sciences

Marc D. Abrams, associate professor of forest ecology, to conduct research and lecture in the Hokkaido Japan Overseas Guest Researcher's Invitation Program.

Thomas H. Bruening, associate professor of agricultural and extension education, to serve as a visiting scholar and develop curricula materials to teach Chinese agricultural educators new methods of instruction at the Food and Agricultural Organization in Rome.

Harry A. Carey, professor of agricultural and extension education, to study cultural differences in educational methodology and to lecture to faculty on improving their ability to teach effectively at the University of Zimbabwe.

Nancy E. Crago, extension agent in Allegheny County, to complete course work and research for a doctoral degree in agricultural and extension education at Penn State.

James W. Dunn, professor of agricultural economics, to study the effects of different agricultural policies when trade restrictions are reduced, Queens University of Belfast in Northern Ireland.

Stephen A. Ford, associate professor of agricultural economics, to develop new methods of teaching agribusiness management and to acquire additional research skills to apply to the economics of livestock-forage systems, Texas A&M University.

Martha R. Gregory, associate extension agent in Lebanon County, to pursue graduate study in training and development at Penn State Harrisburg.

Karen S. Hack, extension agent (Franklin County), to complete course work for a master's degree in training and development at Penn State Harrisburg.

Jayson K. Harper, associate professor of agricultural economics, to study the economic evaluation of alternative pest management options at the University of Queensland in Brisbane, Australia.

Leif Jensen, associate professor of rural sociology, to study poverty and children's labor force participation through the quantitative analysis of data from Chile, Peru and Mexico, at the University of Bergen in Bergen, Norway.

Mary H. Keihl, associate extension agent (Susquehanna County), to complete course work for a master's degree in interdepartmental human resources and family sciences at the University of Nebraska-Lincoln.

Nick T. Place, county extension director (Armstrong and Indiana counties), to complete course work for a doctoral degree in agricultural education at Penn State.

Robert C. Pollock, county extension director (Armstrong and Indiana counties), to complete course work for a master's degree in adult education.

Jeanine R. Richlin, associate extension agent (Sullivan County), to complete course work for a master's degree in interdepartmental human resources and family sciences at the University of Nebraska-Lincoln.

Carole L. Toubakar, associate extension agent (Beaver and Butler counties), to complete course work for a master's degree in interdepartmental human resources and family sciences at the University of Nebraska-Lincoln.

College of Arts and Architecture

Albert A. Anderson Jr., associate professor of art education, to conduct research and prepare a book manuscript on the history of American craft education.

Kim Cook, associate professor of music, to record a recital of cell literature performed at Carnegie Hall and to study 20th-century literature with cellist Janos Starker at Penn State and Indiana University.

George Dickie, professor of landscape architecture, to study and record compositional design aspects of key urban spaces in Florence, Frascati, Rome and Siena, Italy.

Kelleann Foster, associate professor of landscape architecture, to conduct post-development evaluation of the Visual Interactive Code and to participate in teaching and research opportunities at the Royal Melbourne Institute of Technology and the University of Adelaide in Australia.

Daniel R. Jones, professor of landscape architecture, to develop a set of principles and a catalog of example applications for the integration of human activity and wild and scenic rivers.

Loukas N. Kalisperis, associate professor of architecture, to conduct research for a book on a method of teaching architectural design that integrates computers into the conceptualization phase of the making of architecture at the National Technical University of Athens.

James T. Kalsbrek, associate professor of architecture, to conduct research and complete a book on mnemonic design and its application to the understanding of architectural theory, history and design at the Warburg Institute in London and in Rome.

Robert E. Leonard, professor of theatre arts, to establish mutually beneficial relationships with several notable professional playwright organizations.

Romolo Martemucci, associate professor of architecture, to conduct research for a book on the cartography of the Early Renaissance in Italy.

Dale E. Monson, associate professor of music, to write a book on a major work by Johann Adolf Hasse, Venice, Italy.

Christopher P. Staley, associate professor of art, to develop a new body of ceramic and photographic art work at the Clay Studio in Philadelphia.

Keith P. Thompson, professor of music education, to study exemplary practices in the teaching of middle and junior high school general music.

The Smeal College of Business Administration

Peter B. Everett, associate professor of marketing, to study how cities are marketed in Seattle.

Marvin E. Goldberg, the Irving and Irene Bard professor of marketing, to conduct cross-cultural research on children's and adolescents' role in the Asian marketplace, University of Science and Technology in Hong Kong.

Scott A. Snell, associate professor of business administration, to study strategic human resource management within the United States and abroad in Australia and New Zealand.

Eric W. Stein, associate professor of management science and information systems at Penn State Great Valley, to study the design, development and marketing of new software by small to mid-sized companies at the Prague University of Economics, Budapest University for Economic Sciences and Manchester Business School.

James B. Thomas, associate professor of management, to develop a theory of strategic learning of how managers learn; to identify barriers to strategic-focused learning; and to develop prescriptions for the learning aspects of strategic management at IBM in Chicago.

Commonwealth Educational System

Alfred A. Actor, professor of physics at Berks-Lehigh Valley College, to study quantum field theory at the University of Heidelberg in Germany and the University of Capetown in South Africa.

Barbara Cantalupo, associate professor of English at Berks-Lehigh Valley College, to expand two formerly published essays to book-length chapters for a study of "paradoxical insignificance" in the writings of Hawthorne, Melville and Poe.

Margaret R. Christian, associate professor of English at Berks-Lehigh Valley College, to write chapters for a book-length study of 15th- and 16th-century English sermons.

Ivko M. Dimitric, associate professor of mathematics at the Fayette campus, to study finite-type submanifolds and methods of calibration at Michigan State University and the University of Pennsylvania.

Marin M. Goldberg, associate librarian at the Beaver campus, to study the historical foundations of the Carnegie Libraries of Pittsburgh at the Heinz Historical Center in Pittsburgh and the Carnegie Archives in New York.

Wendy N. Greenberg, associate professor of French at Berks-Lehigh Valley College, to study the autobiographical writings of the soldier-writer at the Biblioteca Nacional de Mexico.

Charles R. Hackenberg, associate professor of English at Penn State Altoona, to complete research and begin writing a literary novel.

Karen L. Hill, associate professor of kinesiology at the Delaware County campus, to complete three monographs for publication, each examining a different theoretical approach to sport psychology.

Marilyn D. Maltese, associate professor of speech communication at the Worthington-Scranton campus, to complete work on a book dealing with the teaching of sign language in elementary education in the United Kingdom.

James E. May, associate professor of English at the Duflois campus, to prepare critical editions of Tobias Smollett's multi-volume works on the history of England.

Paul A. Orlov, associate professor of English at the Delaware County campus, to study connections between Rebecca Harding Davis' 1961 brief novel *Life in the Iron Mills* and Eugene O'Neill's 1922 play *The Hair*; and to complete critical studies of several works of American fiction writers Fitzgerald, James, Melville and Wharton, for a book-length manuscript.

Leaves

Continued from page 16

Commonwealth Educational System (cont'd.)

Lois Rubin, associate professor of English at the New Kensington campus, to study coming of age novels (Bildungsroman) of Jewish-American women.

Margaret L. Signorella, professor of psychology and women's studies at the McKeesport campus, to conduct a meta-analysis of children's gender-related preferences.

Suzanne Stutman, professor of English, American studies and women's studies at Penn State Abington, to edit and write an introduction for an unpublished manuscript by Thomas Wolfe, "A Passage to England," at Harvard University, Chapel Hill, N.C., and Philadelphia.

Girija Subramanian, associate professor of chemistry at the Hazleton campus, to conduct collaborative research on supra molecular nonlinear optical materials at the University of Strasbourg in France.

William S. Trencher, professor of physics at the Mont Alto campus, to conduct collaborative research with an international team of scientists on elementary particle physics at the German Electron-Synchrotron Laboratory in Hamburg, Germany.

Harold J. Webster, associate professor of biology at the DuBois campus, to develop a computerized database on the mosses of Pennsylvania at the Missouri Botanical Garden in St. Louis and various sites in Pennsylvania.

Stephen M. Zemyan, professor of mathematics at the Mont Alto campus, to study the omitted arc of a support point for the class S and to complete a textbook on an introduction to the classical theory of integral equations at Lehigh University.

College of Earth and Mineral Sciences

Christopher J. Bise, Centennial Professor of mining engineering, to study curricular and instructional issues related to occupational health and safety at Johns Hopkins University.

David J. Green, professor of ceramic science and engineering, to study distance education techniques used for materials engineering; aid in revision of a course on fracture; and consult on research programs concerning mechanical behavior of ceramics at Open University in the United Kingdom.

John R. Hellmann, associate professor of ceramic science and engineering, to develop oxide fiber reinforced oxide composites for gas turbine combustors in collaboration with researchers at the German Aerospace Research Establishment in Köln, Germany.

College of Education

Glendon W. Blume, professor-in-charge of mathematics education and associate professor of education, to study the implementations of technology-intensive secondary school mathematics curricula.

Daniel D. Hade, associate professor of education, to study the changes in children's book publishing since 1969.

James K. McAfee, associate professor of special education, to study police officers' reactions to crimes involving individuals with mental retardation and to develop a training curriculum designed to improve police officers' responses to individuals with mental retardation at Edith Cowan University in western Australia.

Madhu S. Prakash, professor-in-charge of educational theory and policy and associate professor of education, to study indigenous knowledge systems in India and Mexico.

James L. Ratcliff, director and senior scientist, the Center for the Study of Higher Education and professor of education, to study curriculum design and development in higher education, the use of technology in university teaching and the role of policy formulation in the governance of higher education.

John Salvia, professor of special education, to study the literature on educational reform and the potential impact on special education of various proposals to reform education curricula and teaching methods.

David W. Saxe, associate professor of education, to conduct collaborative research on educational issues at the Hudson Institute and also in Washington, D.C.

Thomas D. Yawkey, professor of education, to document the origins and development of a 15-year national-level cultural and language minority project and to develop a new area of expertise in distance education for English-as-a-foreign-language in third world early childhood and family education teacher programs.

College of Engineering

David A. Anderson, professor of civil engineering, to conduct collaborative research on asphalt cement for highway construction in Lyon, France.

James K. Breakall, professor of electrical engineering, to study antenna and electromagnetics at the National Astronomy and Ionosphere Center in Arecibo, Puerto Rico; Cornell University; the Center for Remote Sensing in McLean, Va.; and Bangalore and Calcutta, India.

Lance R. Collins, associate professor of chemical engineering, to conduct collaborative research in experimental work related to combustion in Orleans, France, and to conduct collaborative research in computational fluid mechanics at Los Alamos National Laboratory.

George S. Dulikravich, associate professor of aerospace engineering, to conduct collaborative research on the mathematical formulation of inverse design and optimization problems at the Institute for Fluid Mechanics in Goettingen, Germany.

Randall M. German, Brush Chair Professor in materials, to study micromechanical modeling of sintering and the control of materials processing conditions for net shape fabrication of precise engineering materials and structures at the University of California, San Diego.

Alireza Haghighat, associate professor of nuclear engineering, to conduct collaborative research on calculations on an experimental facility at the Belgium Nuclear Research Center.

Iam-Choon Khoo, professor of electrical engineering, to conduct collaborative research on theoretical and experimental studies of liquid crystals and nonlinear optical phenomena at the University of Ancona, Italy, and the National Research Council in Ottawa.

Budugur Lakshminarayana, Evan Pugh professor of aerospace engineering, to conduct collaborative research on transonic turbomachinery at Kyushu University in Japan.

Byung-Lip Lee, associate professor of engineering science and mechanics, to study new hybrid composite materials at Wright-Patterson Air Force Base in Ohio, and the Natick Research, Development and Engineering Center in Natick, Mass.

Lyle N. Long, associate professor of aerospace engineering, to study and teach high-performance computing at the University of Edinburgh.

Michael M. Micci, associate professor of aerospace engineering, to apply molecular dynamics modeling to supercritical fluid phenomena in combustion chambers at Edwards Air Force Base in California and to write a textbook on electric propulsion.

Robert M. Owens, professor of computer science and engineering, to study computer vision, image processing and parallel architecture at the University of Pavia, Italy.

Jonathan Phillips, professor of chemical engineering, to conduct collaborative research in catalysis at Ben-Gurion University of the Negev in Israel.

Robert J. Santoro, professor of mechanical engineering, to study gas turbine engine and rocket combustion engineering at Princeton University.

John M. Tarbell, professor of chemical engineering, to conduct collaborative research on the principles and methods of modern molecular biology at the Harvard Medical School and Massachusetts General Hospital.

H. Randolph Thomas, professor of civil engineering, to study labor productivity at the University of Zagreb in Croatia.

Ralph L. Webb, professor of mechanical engineering, to conduct collaborative research on condensation coefficients for heat transfer at the National Institute for Standards and Technology in Gaithersburg, Md.

Greville K. Yull, professor of architectural engineering, to study computer modeling of air flow and pollutant transport within large buildings at the Building Research Establishment in Watford, England, and to study the simulation of energy transport in buildings at the University of Strathclyde in Glasgow, Scotland.

Penn State Erie, The Behrend College

David T. Dorian, associate professor of accounting, to serve in a "faculty in residence" program at Monahan and Monahan, certified public accountants, in Erie, Pa.

Faisal K. Fadul, associate professor of electrical engineering, to study signal recognition and supervision and pulse-to-tone conversion.

Robert E. Farrell, associate professor of engineering, to complete a doctoral degree in plastics engineering.

John K. Gamble, professor of political science and international law, to study new information technologies and international law at the University of New Brunswick in Canada.

Kathryn Willis Wolfe, associate professor of French, to complete the third and final volume of writings on unpublished letters written between 1650 and 1654 by Christophe Dupuy in Rome with his brothers, Jacques and Pierre, in Paris.

Chester I. Wolford, professor of business and Economics, to compile Japanese business short stories for a book project and to gather information for a new course on Japanese leadership.

Penn State Harrisburg

Omid Ansari, associate professor of engineering, to write a textbook and a laboratory manual on control system analysis and design.

Robert J. Bresler, professor of public policy, to complete a book on the impact of cultural issues upon the politics of post-1945 America and the consequent tension that arose between the dominant and adversary culture.

Krishna S. Dhir, professor of business administration, to study the intellectual capital created through technology transfer in organizations.

Richard M. Fox, professor of psychology, to develop strategies for ensuring the long-term maintenance of the successful effects of behavior change programs.

Leaves

Continued from page 17

Penn State Harrisburg

Barry Kanpol, associate professor of secondary foundations, to complete a manuscript on the ethics of critical pedagogy.

Ching-Chung Kuo, associate professor of operations management, to study the international dimension of operations management.

Glen A. Mazis, associate professor of humanities and philosophy, to complete two book-length manuscripts and conduct research on a third book project, all dealing with the philosophical bases of postmodernism.

James F. Rooney, professor of sociology, to write a book analyzing the controlling social institutions for alcohol use in Spain and contrast alcohol use in Spain with the United States.

College of Health and Human Development

Cheryl A. Dellasega, associate professor of nursing, to study long-term medication use in Swedish elderly in Linköping, Sweden.

Michael J. Rovine, associate professor of human development, to complete a book on statistical solutions of problems related to developmental processes and longitudinal data at the University of Amsterdam and the University of Manitoba.

College of the Liberal Arts

Michael R. Baye, professor of economics, to conduct collaborative research on the reform of institutions that govern the patent process, the tort system, and lobbying activities at the Tinbergen Institute in The Netherlands, Purdue University and in Washington, D.C.

Michael B. Berkman, associate professor of political science, to develop an institutionally based theory of how states respond to the newly emerging federalism.

Thomas J. Bernard, professor of criminal justice and sociology, to study recent theory and research on men and masculinity, particularly within sociology and psychology, and develop a theory that relates masculinity to crime within the context of American society.

Karen L. Bierman, professor of psychology, to complete writing journal articles on the findings from data collected from a five-year project that assesses strategies for preventing children's conduct disorders.

Patricia Draper, professor of anthropology and human development, to study and write on the Khoisan hunting and gathering peoples of southern Africa at the University of Edinburgh.

Arthur E. Goldschmidt Jr., professor of Middle East history, to study the biographical dictionary of Egypt since 1750 in Cairo, London and Paris.

Thomas A. Gresik, associate professor of economics, to study the tax regulations of the United States and other developed countries in order to develop an accurate model of how countries compete for foreign direct investment via their tax codes at the World Bank and the U.S. Treasury in Washington, D.C.

Kathryn Hume, distinguished professor of English, to study and write a book that will examine control-oriented theory and apply it to a group of writers who explain the human condition in these terms.

Robert D. Hume, Edwin Erle Sparks professor of English, to do archival research on the finances of theatre and operas in London during the 18th century.

J. Philip Jenkins, professor of religious studies and history, to study and write on the political and social impact of the Cold War on the state of Pennsylvania, c. 1945-56.

Christopher L. Johnstone, associate professor of speech communication, to complete a book on classical rhetorical theory.

Kang Liu, associate professor of comparative literature and Chinese, to write a book-length study comparing the cultural upheavals that took place both in China and the West in the 1960s, Beijing University.

Leon F. Lyday, professor of Spanish, to edit two books and write essays on Columbian literature and culture and Latin American theater.

Melvin M. Mark, professor of psychology, to write a book and review a paper on the application of realist philosophy to social science research methods, at Georgia State University.

Benedicte M. C. Monicet, associate professor of French and women's studies, to conduct research for a book on rare and unavailable books by 19th-century French women authors of children's literature at the Bibliothèque Nationale in Paris.

On-cho Ng, associate professor of history, to complete archival research and begin writing a book on lay Buddhism and Confucian culture in 18th-century China.

Robert N. Proctor, professor of the history of science, to conduct research for a book joining two previous topics, an analysis of the Nazi war against cancer.

James M. Rambeau, associate professor of English and American studies, to conduct research with a focus on the public memory of the Civil War.

Anne C. Rose, associate professor of history and religious studies, to write a historical monograph on the religious lives of interfaith families in the 19th century.

David Shapiro, associate professor of economics and women's studies, to complete work on a book dealing with women's education, employment, fertility and household economic and demographic behavior in Kinshasa, Zaire; at the University of Kinshasa; and the New Economic School in Moscow.

Alan M. Sica, professor of sociology, to explore for book features of current social and cultural theory which benefit or detract from contemporary social research.

Robert M. Stern, distinguished professor of psychology, to study the similarities and differences in the psychophysiology of nausea when caused by different factors such as motion sickness, cancer chemotherapy and diabetes at the University of Rochester, Heinrich Heine University, University of Aachen and the Athens Naval and Veterans Hospital.

Allan I. Stoekl, professor of French and comparative literature, to study and write a book of critical essays on capital punishment in literature.

Marylee C. Taylor, associate professor of sociology, to compile data sets that will explore attitudes about race, immigration and multiculturalism, and to begin a new edition of a classic work of social psychology at the University of California, Santa Cruz.

College of Medicine

John F. Cardella, chief of cardiovascular/interventional radiology and professor of radiology, to serve as a physician reviewer of Food and Drug Administration approval requests and to gain familiarity with the organization, reporting channels, ultimate responsibility for decisions and inner workings of committees at the FDA in Washington, D.C.

David W. Knutson, professor of medicine, to conduct collaborative research on epidemiology and health systems and outcomes research by developing cost-effective mechanisms for treating hypertension at the Lehigh Valley Hospital and the Department of Veterans Affairs Medical Center in Lebanon, Pa.

Susan E. Lederer, associate professor of humanities, to research and write a social and cultural history of blood donation and transfusion in 20th-century America at the Urban Archives, Temple University, Philadelphia, and the State Library in Harrisburg.

Cara-Lynne Schengrund, professor of biochemistry and molecular biology, to study computer modeling of protein-carbohydrate interactions and of procedures for the synthesis of novel carbohydrates at the National Institutes of Health in Bethesda, Md.

Robert C. Vannucci, professor of pediatrics, to prepare a competitive renewal program project research proposal to be submitted to the National Institute of Child Health and Human Development and to develop an expertise in analytical procedures.

Eberly College of Science

David L. Allara, professor of materials science and professor of chemistry, to study advanced concepts and devices for chemical and biosensing at the Swedish National Center for Biomaterials at Linköping University and the University of Uppsala in Sweden.

George E. Andrews, Evan Pugh professor of mathematics, to study exactly solved models in statistical mechanics at Melbourne University in Australia.

Jean E. Brenchley, professor of microbiology and biotechnology, to develop methods for studying proteolytic enzymes and to establish future research projects at North Carolina State University.

Robin Ciardullo, associate professor of astronomy and astrophysics, to use the Hobby-Eberly Telescope to launch a program on galaxy dynamics at the University of Texas and Kitt Peak National Observatory in Tucson, Ariz.

Gregory K. Farber, associate professor of biochemistry, to conduct a sequence analysis of families of proteins at the Fred Hutchinson Cancer Research Center in Seattle.

Gary L. Mullen, professor of mathematics, to study polynomials over finite fields and their applications to information science at Macquarie University in Sydney, Australia.

Susan A. Murphy, associate professor of statistics, to develop two areas of statistical theory, transformation models and methodology for prevention research, at Harvard University and the Free University in Amsterdam.

Calyampudi R. Rao, professor and holder of the Eberly Chair in statistics, to conduct collaborative research on theoretical statistics at the Indian Institute of Management and Indian Statistical Institute in Calcutta.

Ming Ting, professor of biochemistry and molecular biology, to study how cells which use oxygen radicals to break down aromatic polymers are themselves protected from the deleterious consequences, National Institutes of Health in Bethesda, Md.

Boris Tsypen, professor of mathematics, to work on several research projects in noncommutative differential geometry and related topics at the University of Copenhagen and the University of Strasbourg.

William C. Waterhouse, professor of mathematics, to prepare an English translation of the French, German and Latin writings of Carl Friedrich Gauss on number theory and algebra.

The University Libraries

Diane Zabel, social science reference librarian, to research and co-author a reference book on workplace flexibility.

Pennsylvania's wine industry is full of potential

By ESTON MARTZ

College of Agricultural Sciences

Research under way in the College of Agricultural Sciences suggests that Pennsylvania's vineyards and wineries will expand in the next five years.

The state has supported a small wine industry since the early 1970s, when the Pennsylvania Farm Winery Bill allowed for the establishment of wineries, which currently have a production limit of 200,000 gallons annually. The law also permits the operation of retail sales locations and direct sales to businesses and individuals.

"The state's vineyard and winery industry is vibrant and growing," said Stephen Smith, associate professor of agricultural economics. "In the 1980s, an average of 2.3 vineyards and 1.1 wineries were started per year. In the 1990s, the average was 2.7 vineyards and 1.5 wineries started per year. It's still a small industry, but it's becoming very well established and is carving out an important niche in the state's agricultural economy."

Smith, Jayson Harper, associate professor of agricultural economics,



Stephen Smith, associate professor of agricultural economics, left, and Joe Carrol of Mount Nittany Winery examine some white wine.

Photo: Greg Grieco

and Barbara Goulart, associate professor of horticulture, surveyed Pennsylvania vineyard and winery owners about production costs and business characteristics, markets and marketing problems, and the future of the wine industry in Pennsylvania.

"Wineries are very optimistic, with 79 percent of the respondents expecting to increase production in the next five years," Smith said. "Seventy-eight percent of the wine mak-

ers also expect on-premise retail sales to increase. Between 52 percent and 62 percent expect sales to increase through the Pennsylvania Liquor Control Board, retail expansion of premises, direct sales to hotels and restaurants, and food expositions."

Respondents also were asked about Pennsylvania's winery laws. "More than 64 percent of respondents agreed or strongly agreed that the law should be changed to allow wine sales in grocery stores,

with only 26 percent disagreeing," Harper said. "About 80 percent also agreed or strongly agreed on instituting a 1-cent per bottle tax on all wine sold within Pennsylvania to support wine research, extension and promotional programs."

Pennsylvania ranks fourth nationally in total grape production, behind California, Washington and New York. Most of the state's acreage is in Concord grapes for juice, not wine grapes.

Team shows "smart" vibration absorber possible

A Penn State university team has shown that it is possible to build a lightweight, "smart" vibration absorber that could track the changing frequencies of noise and vibration and continuously re-tune itself to control them.

Such a device could quiet industrial machinery and consumer products, such as cars and home appliances. Applications in planes, helicopters, satellites and space platforms promise increased safety as well as enhanced performance and comfort.

Christopher L. Davis, doctoral candidate; George A. Lesiute, associate professor of aerospace engineering; and Jeffrey Dosch of the AVC Instrumentation Division of PCB Piezotronics Inc., Depew, N.Y., conducted the study.

The AVC Division of PCB Piezotronics Inc., with assistance from Penn State's Center for Acoustics and Vibration (CAV) and NASA support, has developed an absorber based on a thin disk of piezoelectric ceramic, or piezoceramic. The disk acts as part of a "spring" that, when placed between the vibrating structure and a dense mass, can counter with a force that cancels the structural motion.

Gary H. Koopmann, professor of mechanical engineering and CAV director, participated in the device's development.

Experiments show the natural frequency of the piezoceramic absorber could be predictably shifted by more than 5 percent, enough to accommodate typical variations in aircraft engine speeds during cruise.

Scientist heats up research on produce package humidity

By JOHN WALL

College of Agricultural Sciences

When it comes to improving the quality and shelf life of packaged fresh mushrooms, it's not the heat, it's the humidity, said a food scientist in the College of Agricultural Sciences.

The shelf life of the common button mushroom is limited to three to five days on a store shelf, said Ramaswamy Anantheshwaran, associate professor of food science. Typically, mushrooms are packaged in containers covered by plastic film with air holes.

Anantheshwaran has completed research on two mushroom packaging methods. One project focused on

modifying the oxygen concentration within individual wrapped packages, and the other sought ways to maintain the humidity within single wrapped packages.

Anantheshwaran's idea to control oxygen content within mushroom packages evolved from research on controlled atmosphere storage, in which precisely controlled gases are used to keep produce from ripening or spoiling.

"Controlled atmosphere storage has been in use since the 1930s," Anantheshwaran said. "If we can maintain the atmosphere inside the package within a certain range of factors, we can improve the quality of mushrooms and other produce."

In the laboratory, Anantheshwaran

found that controlling oxygen within a package worked well. Unfortunately, the package had to be modified at a relatively constant temperature, a factor that cannot be guaranteed on the mushrooms' trip to market.

Anantheshwaran then turned to humidity. "When mushrooms are harvested, more than 90 percent of their weight is water," he said. "Mushrooms also don't have a skin like other types of produce, and give off much more water vapor."

This vapor can collect within the package and cause discoloration and growth of bacteria. Humidity within produce packaging is a common problem that can affect the appearance and safety of the food product. Anantheshwaran said that excess

water causes button mushrooms to brown or yellow and also fosters the growth of harmful microorganisms.

Anantheshwaran is currently testing several commercial available moisture adsorbents to regulate moisture within food packaging. Adsorption occurs when thin layers of molecules adhere to the surface of solids or liquids, much like odors are adsorbed by baking soda.

According to Anantheshwaran, the modified humidity packaging improved the maturity of the mushrooms, effectively increasing the shelf life for the product. Anantheshwaran is currently looking into a package design that would incorporate moisture adsorbents into the structure of the package.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Coaches vs. Cancer golf outing is May 23

Nittany Lion basketball Coach **Jerry Dunn** will be host for the first "Tee Off on Cancer" golf outing, with proceeds being donated to the Coaches vs. Cancer program. The event is Friday, May 23, at the Penn State Blue Course and is sponsored by the Penn State Men's Basketball Club.

Joining Dunn will be past and present Penn State basketball and football players. The scramble tournament is a qualifying event for the American Cancer Society's Golf Championship. Qualifiers will be eligible to play in the state playoffs at the Hershey Country Club in September, with the winner of that tournament advancing to the national championship.

For more information, please contact **Tere Rill** of the American Cancer Society at (814) 238-8908.

Student-athletes make the grade

Four Penn State student-athletes have been selected to the 1996-97 GTE Fall/Winter Academic All-District At-Large Teams. The quartet includes: **Sebastian Gouveneur**, soccer, 3.66 GPA in chemical engineering; **Joe Roemer**, gymnastics, 3.77 in finance; **Kim McGreevy**, women's track and cross country, 3.75 in accounting; and **Karen Van Tassel**, swimming, 3.88 in pre-medicine.

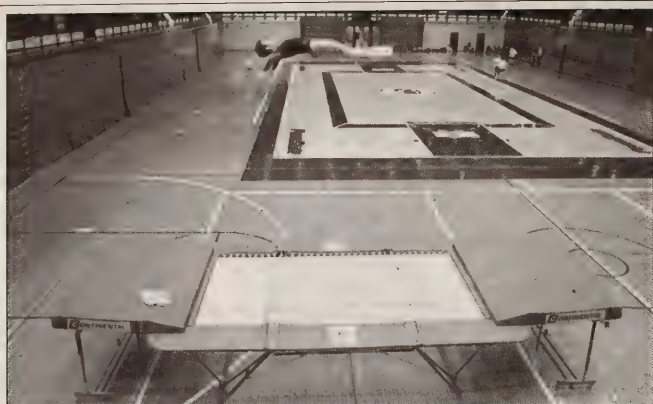
New golf pro

Doug Wert, a 1980 graduate of Mississippi State, has been named head golf professional at Penn State. A Class "A" member of the Professional Golf Association of America, Wert has served as the head professional at TPC Southwind in Memphis, Tenn., for the past three years. His resume also includes experience as assistant pro at TPC Sawgrass in Point Verde, Fla.; TPC Eagle Tree in Coral Springs, Fla., and at Kingwood, Texas; Country Club. During Wert's tenure at Southwind, the club was recognized in 1995 as the "Most Improved TPC Facility."

For the latest information on Penn State sports, be sure to visit the official Intercollegiate Athletics site on the Web: <http://www.psu.edu> (click on Sports).

For the Record

The topic of tonight's Bracken Lecture by **Carol R. Johnson** is "Variety in Landscape Architecture." A headline on page 11 of the March 27 *Intercom* listed an incorrect topic.



She's flying

Sue Challis, master's student in kinesiology, works out on the trampoline in Recreation Building on the University Park campus. The trampolining champion is from Great Britain and will be representing her country in Australia at the upcoming World Cup Games.

Photo: Greg Grieco

Partings

Russell C. Brignano, associate professor of English at Penn State Beaver campus, from Sept. 1, 1975, to Jan. 1.

Harold E. Cheatham, department head for counselor education, counseling psychology and rehabilitation services, and professor emeritus of education, College of Education, from Sept. 1, 1982, to Feb. 1.

Can V. Dang, environmental health worker at The Hershey Medical Center, from Nov. 21, 1977, to Jan. 17.

David L. Dunbar, extension agent, College of Agricultural Sciences, from Dec. 17, 1973, to Dec. 31, 1996.

Teresa Hubler, food preparer B, Housing and Food Services, from April 17, 1983, to Jan. 2.

Jon David Johnson, receiving clerk at The Hershey Medical Center, from April 23, 1979, to Feb. 1.

Sarah E. Lighty, animal caretaker Cat The Hershey Medical Center, from June 2, 1980, to Dec. 21, 1996.

Shu-Yen Liu, senior research assistant, agronomy, College of Agricultural Sciences, from Aug. 16, 1976, to Jan. 1.

Eva I. Orndorf, janitorial worker, Office of Physical Plant, from Oct. 25, 1981, to Jan. 3.

William S. Pierce, Evan Pugh professor emeritus of surgery at The Hershey Medical Center, from June 1, 1970, to Feb. 8.

Spanier to testify on federal government's technology initiative

President **Graham B. Spanier** is scheduled to testify before the U.S. House Science Committee April 9 on the federal government's information technology initiative.

Spanier is chairman of the Commission on Information Technology of the National Association of State Universities and Land Grant Colleges.

Penn State leads a group of about 100 universities developing "Internet II" — a new, faster Internet. Spanier said Friday he wasn't sure what questions legislators would ask.

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University in top 10 nationwide for doctoral degrees awarded

Penn State was ranked No. 1 in Pennsylvania and ninth among American universities in the number of doctoral degrees awarded in 1995 by the National Research Council in a survey of earned doctorates released recently.

Penn State awarded 585 doctorates in 1995, up from 528 in 1994 when the University ranked 13th nationally.

According to the NRC survey, engineering students earned the most doctorates, 160, at Penn State in 1995, followed by students in education, 109, and the biosciences, 66.

Rodney A. Erickson, dean of the Graduate School and vice president for research, noted that the rankings come at a time when Gov. Tom Ridge has declared this week as Graduate and Professional Student Appreciation Week.

"It's an appropriate time to recognize not only the record numbers who have been graduated from Penn State in recent years, but also the important contributions they make to the University," Erickson said. "Doctoral and master's candidates are productive partners in both the research and teaching activities at Penn State."

Graduate students often teach or lead recitation sections of undergraduate courses under the guidance of faculty members. A



Practical applications

Doctoral candidate Christopher L. Davis was part of a team that recently showed that it is possible to build a lightweight "smart" vibration absorber that could track the changing frequencies of noise and vibration and continuously re-tune itself to control them. Such a device could quiet industrial machinery and consumer products. Applications in planes, satellites and space platforms promise increased safety and enhanced performance.

Photo: Greg Grieco

dozen doctoral and master's candidates were honored for outstanding teaching at the annual University awards program April 6. The winners represented all of the areas of learning at the University and had been singled out by their students as well as their professors.

All doctoral students are required to complete a dissertation that advances knowledge in their field of study and which involves research on real, often practical, solutions to problems. Recent doctoral dissertations have included the development

of a statistical test for cancer risk; a study of low-intensity exercise training for older adults; a probe of the regulation of organized crime in New York state; a survey of the images of the U.S. in the French press; and an award-winning study of termite risk assessment, to name only a small sampling.

Penn State currently offers 98 programs of study and research leading to the doctoral degree. The biggest share of doctoral students outside the University Park campus are registered in the College of Medicine in Hershey.

Undergraduates to exhibit their research

Why do battered women tend to stay with their abusers as long as they do? How may we determine the possibility of life on other planets? How can the auto industry protect your investment from the ravages of winter road salts?

This is but a sampling of the record 87 undergraduate research exhibits which will be on display in the HUB Ballroom on the University Park campus during the Sixth Annual Undergraduate Research Fair, April 14-15. Sixteen students are expected to share a total of \$2,500 in cash prizes, with the overall winner of the Gerard A. Hauser Prize taking home \$500. Winners will be announced at 5 p.m. Tuesday, April 15, during closing ceremonies led by Carol V. Gay, professor of cell biology and poultry science.

Sponsored by the University Scholars Student Advisory Committee and the Undergraduate Student Government Academic Assembly and funded jointly by the Scholars Program and the Office of Undergraduate Education, the fair continues to attract increasing numbers of students. A number of students who have entered also will display their research at the National Conference on Undergraduate Research at the University of Texas at Austin, April 24-26.

Expo to showcase innovations in learning

By KAREN I. WAGNER
Public Information

Enter the classrooms of the future. Students are advising community planners on waste management practices and balancing the federal budget online. The classrooms themselves bear a striking resemblance to a regional planning commission meeting and a computer lab.

Whether consulting for local government and attending township meetings or playing computer simulation games in the lab, like "Uncle Sam's Budget Buster," these students are gaining real-world experience that transcends the traditional classroom.

See "Classroom" on page 2

Quality Expo '97
will be held from
11 a.m. to 3 p.m.
April 17 at The
Nittany Lion Inn
at University Park.

Inside



Mark your calendar

President Graham B. Spanier will be featured on Pennsylvania Cable Network's "PCN Profiles" at 10 p.m. Sunday, April 13, and 3 p.m. Monday, April 14. Check your local listings for the PCN channel in your area.



Research

Studies have shown that infant and geriatric formula that have passed their expiration dates for human consumption are still nutritionally sound for cows and pigs. For details, please see page 11.

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GLAD you asked

To submit a question for this column, please send e-mail to the address listed below. Submissions must include a contact name and telephone number so that we can verify the source. Requests for anonymity will be honored. The following is a two-part question.

Q. How much paper does all of Penn State, including branch campuses, use in a year?

— *Wondering at University Park*

A. Given the overall size and geographic dispersion of Penn State, precise consumption figures for all paper types and grades are difficult, and in some instances, impossible to obtain. Within several product categories, however, statistics are available. For example, the University consumes approximately 150 million sheets or 30,000 cartons of copier paper annually. Penn State consumes approximately 10,000 cases of paper towels and 7,500 cases of toilet tissue or 360,000 rolls per year. Figures for the multitude of printing grades and weights are difficult to obtain since many publications are obtained from outside suppliers.

Q. Couldn't the colleges, if they combined their consumer power, obtain a cheaper price (relative to virgin paper) on recycled paper?

Combined purchasing power, or the principle of economies of scale, is and has been the basic tenet behind Penn State's General Stores and Document Services operations. By combining many small orders into one large order, the University community benefits through improved prices and better control of product quality and distribution. Without this pooling of requirements, the University would most certainly pay higher prices for all goods and services. No better example of this principle in practice exists, than in the current pricing of copier paper through General Stores. Through the pooling of requirements and commitment of the University's Copy Center Services, the price difference between non-recycled and recycled copier paper has been reduced to just 5 percent or \$1 per carton. Through effective negotiations by Purchasing Services, recycled copier paper has become affordable to the University community where the market had previously dictated a 20 percent premium.

In another application of the principle of economies of scale, Document Services currently uses recycled printing papers, index stock and document bond for all standard applications while Copy Center Services has established a recycled copier paper as standard issue. Additionally, all of the paper towels and toilet tissue are of recycled content paper.

— *Joyce Hanley
Manager
Purchasing Services*

Classroom

Continued from page 1

"I think that what students get out of these experiences is the realization that knowledge is not certain," said Spiro Stefanou, professor of agricultural economics. "They develop an appreciation for the challenge of decision making, where there are no right or wrong answers."

Penn State quality initiatives have focused on projects like these — innovations in the classroom that are designed to provide students with the kind of decision and project management skills that will prepare them for the working world of problem solving. And they are just two of the many quality initiatives sponsored by the Schreyer Institute for Innovation in Learning that will be on display at Penn State's Quality Expo '97. The Expo will be held from 11 a.m. to 3 p.m. Thursday, April 17, in the Nittany Lion Ballroom. The event is open to the public.

The Schreyer team was interested in promoting different approaches to learning and assessing the impact at Penn State. As part of that goal, Stefanou engaged his students in a semester-long project for the Centre Regional Planning Commission. When students enrolled in his economic valuation of natural resources class, they never imagined they'd wind up as consultants to the commission's Spring Creek Watershed Committee. The watershed extends from the greater State College area to Milesburg, serving 15 municipalities.

The local planning commission contacted Stefanou during the spring of 1995 when it was interested in finding an intern to research the community's attitude toward alternative waste management strategies. The students surveyed nine municipalities in the Centre Region — a random sample of more than 300 households. The questions were designed to gauge the community's willingness to pay for various wastewater and trash disposal methods — methods that could eventually impact on the watershed.

"This was for real — a volatile issue involving growth in the Centre region," Stefanou said.

Stefanou served as facilitator for the project, pointing students in the right direction, but the students were the consultants and project managers. They developed their own learning agenda, determining for themselves what they needed to know in order to solve the problem. The commission's project was compatible with the course's emphasis on problem-based learning.

"People move to this area because they enjoy the environment, but this was the first time anyone asked residents how much they were willing to pay for it," Stefanou said. "Analyzing the problem forced the students to make judgments. There were lots of potential solutions to address this problem."

Students developed a survey and analyzed community response with help from the Schreyer Institute. The culmination of their project was a formal presentation of their results to the planning commission earlier this month.

Jeremy Castle, senior in environmental and renewable resource management, presented the class findings. Castle was nervous. For him, the project and final presentation represented the pinnacle of his senior year.

"It's been an incredible opportunity. We actually got to do something, instead of just sitting there listening to lectures. In fact interviews I can talk about the project, and I can show them a survey that I actually designed and analyzed," Castle said.

Meanwhile, students enrolled in Charles Kennedy's course on American national governments were engaged in a unique learning experience of their own. Kennedy's goal was to support Penn



Hands-on learning

Jeremy Castle, senior in environmental and renewable resource management, presented the class findings on the Spring Creek Watershed project to the Centre Regional Planning Commission.

Photo: Greg Grieco

State York students in developing a deeper understanding of the political process and the inner workings of our national government.

Kennedy provided his students with some unique resources to encourage active learning, including a computer simulation that put them in the role of campaign manager. The "Doonesbury Election Game" featured more than 60 possible characters, both cartoon and those based on real-life political figures dating back to 1960. Armed with biographies, summaries and demographic data, the student's objective was to manage their candidate's campaign and win the presidential election.

"The last time we played, Dick Nixon won the election, running against Bill Clinton," said Kennedy. Students have the choice of selecting presidential and vice presidential candidates from all three parties. Some of their more creative pairings have included Ross Perot with Norman Schwarzkopf. Kennedy believes students learn best when they are having fun.

They also got to try their hand at balancing the federal budget by manipulating actual numbers from the Congressional Budget Office. In case you're wondering, more than half of Kennedy's students were able to balance the budget within five years.

Students become so impassioned in debate and negotiation with one another, they tend to forget that Kennedy is in the room. Like Stefanou, Kennedy agrees that collaborative learning experiences force students to make tough decisions.

"After all," Kennedy said, "that's what life is all about."

In addition to Stefanou and Kennedy's projects, the Schreyer booth at Penn State's Quality Expo '97 will feature the classroom innovations of four other faculty members in the College of Agricultural Sciences, the Eberly College of Science, the College of Engineering and the College of the Liberal Arts.

HUB/Robeson project forum set for April 17

There will be an open forum on the planned HUB/Robeson Center complex from 12:30 to 1:30 p.m. Thursday, April 17, in the HUB Gallery Lounge on the University Park campus.

A current status report and planning timelines will be presented. Members of the HUB/Robeson Center Building Design Committee and a representative from the architectural firm Williams Trebilcock Whitehead will be available to discuss the project and answer questions.

The Penn State Board of Trustees recently approved the final plans for a single complex that jointly will expand the Hetzel Union Building and house the new Paul Robeson Cultural Center at University Park.

Designed by Williams Trebilcock Whitehead Architects of Pittsburgh, the HUB/Robeson project will add 91,000 square feet to the HUB's existing 154,000 square feet. The construction will expand and renovate portions of the HUB and add a new Paul Robeson Cultural Center.

Stework is slated to begin in May with building construction starting in July. Completion is targeted for the beginning of fall semester 1999.

For more information, call (814) 865-7661.

Harrisburg expansion project architect picked

The Harrisburg firm of Murray Associates has been named architect for the \$1-million expansion of the Penn State Harrisburg Science and Technology Building.

The 6,000-square-foot addition to the building constructed in 1982 is aimed at enhancing Penn State Harrisburg's undergraduate and graduate environmental engineering programs. Construction is expected to begin in October with completion in the summer of 1988. The addition will include a pilot lab, an air quality laboratory, two research labs, faculty offices and a seminar room.

Corporate and private support for the project has been enthusiastic with a \$300,000 Whitaker Foundation pledge leading the way. The AMP Foundation has pledged \$50,000 and other corporate sponsors, including GPU Energy, have committed another \$50,000 to the effort.

Murray Associates, the oldest architectural firm in Harrisburg, has an extensive list of academic projects in the region including: the Lebanon Campus of Harrisburg Area Community College, an addition to the Technical Center at Hershey Foods Corp., the Franklin Science Center at Shippensburg University and the Kline Science Building at Messiah College.



On the spot

Graduate student Scott Kletke, left, is the subject of a surprise interview by CBS affiliate WTAJ-10 news anchorman David Price. Price and his television camera crew joined with The Smear College of Business Administration to teach MBA candidates how to manage media moments. One of the goals of the seminar, held at The Nittany Lion Inn April 2, was to teach students how to deal with unexpected media coverage of their business and make the most of live, on-air questions. Attendees also learned about the structure and goals of the news media, how to manage difficult media situations, how to develop positive media relations and practical tips for planning and executing a news conference.

Photo: Greg Grieco

News in Brief

Health promotion

To Go or Not To Go To The Doctor Is it a lingering cold, or is it pneumonia? Sometimes it's difficult to know when to go to the doctor, and when to stay home and follow a self-care approach. In this session, learn about resources that can help you make informed decisions about providing

the best health care for you and your family. Self-care manuals will be available for purchase. Meets Friday, April 18 from noon-1 p.m. in 110 Henderson Building (The Living Center). Cost: None.

To register, contact Jan Hawbaker at (814) 865-3085 or JQH3@PSU.EDU.

Book Shelf

Steven Heine, associate professor of religious studies, has edited a book of essays by the prominent Japanese scholar of Buddhist studies, Masao Abe, formerly of the University of Chicago. The volume, *Zen and Comparative Studies*, is the second part of a two-part sequel to Abe's award-winning *Buddhism and Western Thought*. It deals with a critical comparison of Zen Buddhism and western philosophy, psychology and theology. The first sequel, *Buddhism and Interfaith Dialogue*, also edited by Heine, appeared last year. All three volumes are published by the University of Hawaii Press.

Marshall W. Raffel, professor emeritus of health policy and administration in the College of Health and Human Development, is editor of the book *Health Care and Reform in Industrialized*

Countries. Published by the Penn State Press, the volume examines the health-care systems of Canada, Denmark, France, Germany, Japan, the Netherlands, New Zealand, Sweden, the United Kingdom and the United States.

The book's essayists are all resident health care experts who address the ways in which their countries influence, and are influenced by, the health-care systems of other countries studied. They also examine their common problems—including the increasing pressure to serve aging populations while maintaining economic balance.

Brent Wilson, professor of art education and head of the Department of Art Education in the College of Arts and Architecture's School of Visual Arts, has had his book *The Quiet Evolution: Changing the Face of Art Education*, published by the Getty Found-

Toastmasters to meet

Happy Valley Toastmasters, a group designed to help people better articulate in a group setting, will meet at noon Tuesday, April 22, in 310 Shields Building on the University Park campus. For information, call David Panko at (814) 237-2822.

ation Institute for the Arts. Written for education reformers, policy makers, educators and scholars, the book is geared for those with a serious interest in systemic school reform.

Wilson's book reports on a seven-year study of the development of a comprehensive approach to arts education, known as discipline-based art education, pioneered by six regional institutes. The approach combines four basic disciplines—art making, art history, art criticism and aesthetics—into a holistic learning experience.

Wilson provides a history of the evolution of art education practice and theory at the institutes, a change effort that has affected thousands of teachers in hundreds of school districts. Included are anecdotal accounts of how each professional development institute built a coherent, comprehensive approach to art education.

LECTURES

Anthropologist to give spring lecture for WISE

Patricia Wright, executive director of the Institute for the Conservation of Tropical Environments, MacArthur Fellow and professor of anthropology at the State University of New York, Stony Brook, will give the spring WISE Institute lecture, titled "Biodiversity Conservation in Madagascar: A Case Study, Ranomafana National Park," at 7 p.m. Thursday, April 17, in 101 ASI Building.

In addition, Wright will give a lecture at 4 p.m. Friday, April 18, in 107 Carpenter Building, titled "The Impact of Predation Risk on the Behavior of *Propithecus Diademata* Edwards in the



PATRICIA WRIGHT

Rain Forest of Madagascar," and will be the keynote speaker for the seventh annual Challenges and Achievements Conference on Saturday, April 19, at The Nittany Lion Inn.

Wright has been active in research and conservation in Madagascar since 1985. Her visit is co-sponsored by the Women in the Sciences and Engineering (WISE) Institute; the Science, Technology and Society Program; the Department of Anthropology; and the Equal Opportunity Planning Committee.

For more information, contact the WISE Institute at (814) 865-3342 or e-mail WISE@psu.edu.

Encouraging your child to eat well is subject of talk

Mealtime can be a battleground for parents and children. Parents worry that children don't eat the right foods, eat too much or too little, or are just plain finicky eaters. Nationally recognized nutritionist and registered dietitian Elynn Satter will offer practical tips for parents, day care providers and others interested in understanding and improving children's nutrition in a free, public lecture at 7 p.m. Tuesday, April 15. Her presentation, sponsored by the College of Health and Human Development, is titled "Feeding with Love and Good Sense," and will be held at The Penn State Scanticon. For reservations, call Peggy Hoover at (814) 863-2212.

Satter's talk will cover common problems in feeding children, as well as looking at parental behaviors that positively or negatively influence the way children eat.

Satter's visit coincides with a major satellite teleconference for the Women, Infant and Children (WIC) Program, presented by the College of Health and Human Development and Continuing and Distance Education. Satter will join faculty from the department of nutrition and human development and family studies, and the College of Agricultural Sciences' Department of Food Science for the teleconference to be held Thursday, April 16.

Jane Goodall visits April 16

Jane Goodall, famed anthropologist and founder of the Gombe Stream Research Centre for the study of chimpanzees, will deliver a multimedia presentation at 8 p.m. Wednesday, April 16, at Eisenhower Auditorium on the University Park campus.

Goodall has lectured throughout the world on her discoveries and the plight of chimpanzees and all animals. She began her observations of chimpanzee behavior in Tanzania, Africa,

in 1960. Today, Goodall's Gombe Stream Research Centre conducts year-round observations of the descendants of her original study group.

Goodall's presentation is co-sponsored by the Department of Anthropology and the Center for Human Studies. Tickets are free and will be available in 225 HUB. For more information, contact Carol German in the Office of Student Activities at (814) 863-3786.

Australian-born author to present two seminars

Desmond O'Grady, an Australian-born author and journalist living in Italy, will present seminars on April 14 and 15 at University Park. The first is a comparative literature seminar titled "Bouras' Greece, O'Grady's Italy: The Experience of Two Expatriate Australian Writers" on Monday, April 14, in 101 Kern Building. A brown-bag luncheon will begin at 12:15 p.m.; the presentation and discussion will begin at 12:40 p.m. The second is a lecture titled "Italians in 19th century Australia" at 7:30 p.m. Tuesday, April 15, in the Rare Books Room of Pattee Library.

The presentations, which are open to the public, are co-sponsored by the Australia-New Zealand Studies Center, the Department of Comparative Literature, the Department of English, the Institute for the Arts and Humanistic Studies and the Dorothy Foehr Huch Chair for Special Collections, Pattee Library. For more information, contact Patricia Corbett at e-mail: pac9@psu.edu or phone: (814) 863-1603.

Talk centers on Amish response to changing world

Stephen M. Smith, associate professor of agricultural economics and director of the Center for Economic and Community Development, will give a talk on "The Amish Response to a Changing World" at 5 p.m. Tuesday, April 15, in the International Lounge, 222 Boucke Building on the University Park campus. His talk is sponsored by the Central Pennsylvania Chapter of the Fulbright Association.

For more information, contact the Fulbright Office at (814) 865-6192.

Lecture focus to be journalism ethics

Steve Weinberg, author, editor, media critic and part-time instructor for the University of Missouri's School of Journalism, will deliver the 1997 Dr. N.N. Oweida Lecture in Journalism Ethics on Tuesday, April 15. Weinberg's lecture, titled "The Shame and Success of Investigative Reporting: Unethical and Ethical Conduct," will be presented at 4:30 p.m. in the Carnegie Cinema on the University Park campus. The lecture is free to the public.

The Dr. N.N. Oweida Lecture in Journalism Ethics is supported by an endowment from Margaret L. Oweida in memory of her late husband, Dr. N.N. Oweida, a surgeon from New Kensington, Pa.

Changes in food distribution system examined April 16

Donald F. Dufek, retired senior vice president for The Kroger Co., will present the 1996 M.E. John Memorial Lecture from 2 to 4 p.m. Wednesday, April 16, at 215 Armsby Building on the University Park campus.

Dufek has recently completed leading a food marketing institute national task force on efficient consumer response. His lecture, "Efficient Consumer Response: The Value Added System for the U.S. Food System in the 21st Century" examines how this task force's results are bringing about a change in the national food distribution system by changing product flows, information flows and cash flows. Under this system all members of the food system — manufacturers, brokers, wholesalers, chains and independents — have joined in new alliances.

Learn about "New Planets Beyond the Solar System"

On Wednesday, April 16, visiting astronomer Laurence Marschall will present a public talk about "New Planets Beyond the Solar System" at Penn State DuBois. He will tell how new discoveries and techniques have led astronomers to discover these new planets. How astronomers did it; what the new worlds are like; how many more remain to be discovered; and what implications there might be for life elsewhere in the universe are topics that will be covered in this illustrated lecture geared to star lovers of all ages. Marschall is a professor of physics at Gettysburg College.

"New Planets Beyond the Solar System" will begin at 7:30 p.m. Wednesday, April 16, in the Hiller Auditorium at the DuBois campus. The presentation is free to the public. For more information, call Brian Weiner, program chair, at (814) 375-4740 or John Farr, co-chair, at (814) 375-4737. Marschall's visit is sponsored by the Harlow Shapley Visiting Lectureship program of the American Astronomical Society.

Find out why powders don't flow at April 17 lecture

The Pennsylvania State University Chapter of Sigma Xi, The Scientific Research Society presents a luncheon lecture titled "Powders — Why Won't They Flow?" at noon Thursday, April 17, at The Living Center, 110 North Henderson Building on the University Park campus.

Virendra M. Puri, research thrust leader at the Particulate Materials Center and professor of agricultural engineering, will discuss how powders embody some characteristics of solids, liquids and gases, yet behave differently. He will explain the differences and associated consequences of these characteristics, as well as the need to quantify the flowability of powders. In addition, he will share state-of-the-art techniques in flow property measurement, including research being conducted at Penn State.

For more information, call Pat Gong today or Tuesday after 3:30 p.m. at (814) 237-0671.

More Lectures

Chemistry professor to speak about field's early "giants"

The 1997 Nelson W. Taylor Lecture Series will be presented at University Park on April 23 and 24 by Sir John Meurig Thomas, professor of chemistry and former director of the Royal Institution of Great Britain and Master of Peterhouse, the earliest college of Cambridge University, UK.

He will give a talk for the general public on two of the "giants" of early 19th century science, Sir Humphry Davy, pioneer of electrochemistry and inventor of the Davy safety lamp, and Michael Faraday, who was first to produce an electric current from a magnetic field and invented the first electric motor and dynamo. Both men carried out their work at the institution in London that was directed by Thomas from 1886 to 1991. The lecture will be titled "Davy and Faraday: A Tale of Contrasting Geniuses" and



JOHN MEURIG THOMAS

will be held at 1:30 p.m. in 112 Kern Building, Wednesday, April 23. A reception following the lecture will be held in the Earth and Mineral Sciences Museum in Steidle Building.

On Thursday, April 24, Thomas will give a second lecture, on "Designed Solid Catalysts," at 1:30 p.m. in 112 Kern Building.

Thomas was knighted in 1991 in recognition of his work in chemistry and particularly his efforts to popularize science.

The Taylor Distinguished Lecture Series is sponsored by the Department of Materials Science and Engineering of the College of Earth and Mineral Sciences. The series was established in 1965 to honor the memory of Nelson W. Taylor, head of the Department of Ceramics from 1933 to 1943, and continues to be supported by a legacy from his widow, Miriam Taylor.

Workshop looks at learning beyond the classroom walls

The overwhelming lesson students learn in school is that wisdom is contained in books. The College of Agricultural Sciences is focusing on what is beyond the written word by hosting a two-day workshop titled "The Community as Classroom: Local Knowledge, Natural Resources and Ecology," April 18-19 on the University Park campus.

Sponsored by the College of Agricultural Sciences, the Interinstitutional Consortium on Indigenous Knowledge and Penn State's Society for International Development, the conference is intended for elementary and secondary school teachers, Cooperative Extension agents, youth leaders, students and community leaders. Participants will learn how local knowledge and scientific knowledge can be used to make decisions about natural resource use and the environment.

The conference begins at 2 p.m. Friday, April 18, with a tour of the Pasto Agricultural Museum at the Russell Larson Agricultural

Research Center at Rock Springs. The remainder of the conference will take place at the University Park campus in the Agricultural Sciences and Industries Building, beginning with registration at 5:30 p.m. in the lobby.

At 6 p.m. in Room 101, William Coperthwaite, a lecturer from Machiasport, Maine, will deliver the keynote address, "Helping Youth Learn the Value of Different Ways of Knowing."

Coperthwaite is an expert on yurts, native homes built out of natural materials by the Mongols of Central Asia. The structures are an example of how indigenous cultures use material within their environments to create useful products for their everyday lives.

A \$50 registration fee includes materials, parking, food and field trip transportation. Continuing education units and academic credit are available. For more information, or to request registration materials, call (814) 865-8301.

Nonlinear phenomena topic of April 17 lecture

Ali Hasan Nayfeh, an international authority in the field of nonlinear dynamics and vibrations, is the Thursday, April 17, speaker in the Department of Mechanical Engineering Distinguished Lecture Series. Nayfeh's lecture, "Can the Engineer Ignore Nonlinear Phenomena?" will be presented at 4 p.m. in 125 Reber Building.

Nayfeh is the University Distinguished Professor of Engineering at Virginia Polytechnic Institute and State University. He will discuss potential nonlinear phenomena which design engineers must be able to recognize, understand and respond to appropriately.

Former ambassador to visit University Park

Edward Joseph Perkins, former ambassador of the United States to Australia, South Africa and Liberia, and former U.S. representative to the United Nations Security Council, will be at Penn State April 17 and 18 to meet with students, faculty and administrators and to give a public lecture on "The Emerging Role of the Asia-Pacific Region in Global Affairs: Responses from and Cooperation between the United States and Australia" at 7 p.m. Thursday, April 17, in the HUB Assembly Room on the University Park campus.

The Dorrance Distinguished Lecture is sponsored by the Australia-New Zealand Studies Center, the Office of International Programs and the Equal Opportunity Planning Committee.

Perkins also will give a brown-bag lunch talk on "American Diplomacy and Politics in Sub-Saharan Africa" at noon Thursday, April 17, in the conference room in the Paul Robeson Cultural Center, and an International Council colloquium on "Positioning Universities for their International Role: A Career Diplomat's Perspective," at 10 a.m. Friday, April 18, in the International Lounge, 222 Boucke Building. All events are open to the public.

Perkins, who retired as ambassador to Australia last year, is currently the William J. Crowe Chair professor and interim executive director of the International Programs Center at the University of Oklahoma.

For more information, contact Michael Laubscher at (814) 865-7681.

Lecture tied to "Exotic Illusions" exhibition

Peter Welsh, curator of the exhibition "Exotic Illusions: Art, Romance and the Marketplace," and professor of anthropology at Arizona State University, will present a lecture on "Museums and the Culture of Commodities" on Thursday, April 24, at 7:30 p.m. in the Palmer Lipson Auditorium at the Palmer Museum of Art on the University Park campus.

The exhibition, on display at the Palmer Museum, challenges traditional definitions of "exotic," "primitive" and "authentic" as they relate to non-Western art and artifacts by exploring the role of consumers in the creation and distribution of such objects.

Conceived by The Heard Museum in Phoenix, "Exotic Illusions" was organized by the Smithsonian Institution Traveling Exhibition Service. "Exotic Illusions" will be on view until June 15.

Explore the role of Vitamin A in immunity

A. Catharine Ross, Dorothy Foehr Huck chair and professor of nutrition, will present the Evan G. and Helen G. Pattishall Lecture of the College of Health and Human Development at 4 p.m. Thursday, April 24, in 209 Henderson Building South at University Park.

Her topic will be "Vitamin A and Immunity: Implications for the Young and the Old." The lecture is open to the public, and a reception will follow in the Henderson Living Center.

Ross received the college's 1996 Pattishall Outstanding Research Award which honors a senior health and human development faculty member who has made outstanding research contributions to the field across a major portion of his or her career. She is recognized for her creative and probing investigations dealing with vitamin A (and related retinoids) and health. In addition to providing fundamental knowledge about the basic mechanism by which homeostasis of retinoids is maintained in mammals, she has contributed significantly to the understanding of how dietary retinoids influence resistance to infections.

Ross joined the Penn State faculty in 1994 from the Medical College of Pennsylvania, where she was professor of biochemistry and pediatrics. Ross has served on several NIH panels, as a consultant to World Health Organization, and recently was elected treasurer of the American Society of Nutrition Sciences.

The ARTS

AT PENN STATE



On stage

The sounds of zils, tambourines and iron fans will fill the air when the Penn State International Dance Ensemble presents its 19th annual Spring Concert at 2 and 7:30 p.m. Saturday, April 12, in the White Building Dance Theatre on the University Park campus. The dance, music and song of world cultures will be featured. A reception and dance will follow the evening performance, which is open to the public. Tickets are \$7 for general admission, \$5 for students and senior citizens, and are available from ensemble members, by calling (814) 863-3467 and at the door before each performance. The ensemble is directed by Elizabeth Hanley, assistant professor of kinesiology in the College of Health and Human Development.

Vanities at Altoona

Jack Heifner's *Vanities* is a sharp, poignant comedy that chronicles the friendships of Joanne, Kathy and Mary, three young Texas women who come of age in the turbulent '60s.

Directed by Nona Gerard, *Vanities* will be presented in the theatre of the Community Arts Center at Penn State Altoona today through April 12 and April 15 to 19. All shows are at 8 p.m. Tickets are \$5 general admission, \$3 with a Penn State ID, and are available at the Penn State Altoona Bookstore and at the door. Call (814) 949-5120 for ticket information.

Free spring concert

The Penn State Mallet Ensemble, under the direction of Dan C. Armstrong, professor of music, will perform its annual spring concert at 8 tonight in the School of Music Recital Hall on the University Park campus.

"The Rice of Strangers"

"There was manure on the floor and hair from the horse's tail stuck on the ceiling walls. Because stalls have no ceilings, you could hear babies crying, family arguments and the sick coughing throughout the night."

These words from "The Rice of

Strangers," which will be performed at the Studio Theatre of Penn State Erie, The Behrend College, are taken from the real-life testimony of Japanese Americans interned in concentration camps on American soil during World War II. "The Rice of Strangers" will be performed April 10, 11, 12 and 13 at 8 p.m.

Although the performances are free, reservations should be made by calling the Penn State-Behrend Studio Theatre at (814) 898-6016.

Opera for children

The Penn State Children's Opera will present two free operas, *A Minkat Lullaby* and *The Frog Who Became A Prince*, by Edward Barnes, at 2 p.m. Saturday, April 12, and Sunday, April 13, at the School of Music Recital Hall on the University Park campus.

Performances are free to the public.

Clarinetist to give recital

Tom West will perform a free clarinet recital at 2 p.m. Sunday, April 13, in the School of Music Recital Hall on the University Park campus. A reception will follow the recital.

West will be accompanied by Diane Gould-Toulson on the piano. West is a student of Smith Toulson, professor of music.

Odyssey Through Literature

Religion and its infinite interpretations are the topic of discussion on the April 13 episode of *Odyssey Through Literature*. Leonard Rubinstein and Robert Neville, dean of the School of Theology at Boston University, face such ambiguous questions as, "Is God a person or an entity?" and "Is religion nothing more than a commonly held collection of intellectual metaphors?"

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WPSU 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania.

Organ recital set

Shannon M. Love will perform her senior organ recital at 8 p.m. Sunday, April 13, in the School of Music Recital Hall on the University Park campus.

Love, a music education major, is a private student of June Miller, associate professor of music. The concert is free to the public.

The Big Push at Berks

The Big Push, a small "big band," will give a free performance at 7:30 p.m. Wednesday, April 16, in the Perkins Student Center Theatre at Penn State Berks campus.

The Big Push presents its unique interpretation of where the big band movement is going, incorporating the modern rhythmic influences of hip hop dance music.

Bach's Lunch

The Penn State Mallet Ensemble will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, April 17, in the Helen Eakin Eisenhower Chapel on the University Park campus. The 20-minute free concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

Audience members may take bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Spring dance concert

The Penn State Dance Program will present its annual spring concert, "Choreographer's Showcase," at 8 p.m. Thursday, April 17, and Friday, April 19, at 2:30 p.m. Saturday, April 19, in the White Hall Dance Theatre in the White Building on the University Park campus. The performance will feature Orchestris Dance Company and will range in styles from jazz to modern, from lyrical to dramatic. The concert also will feature choreography by Patricia Heigel-Tanner, assistant professor in the Department of Kinesiology and dance program coordinator; and Vicki McQuaide, instructor in the Department of Kinesiology; as well as student-choreographed works.

Admission is \$5 for students and \$6 for the general public.

"Opera at the Pavilion"

The Penn State Opera Theatre will present "Opera at the Pavilion" at 8 p.m. Friday, April 18, and Saturday, April 19, in the Pavilion Theatre on the University Park campus. The one-act operas to be performed are Franz Josef Haydn's *La Cenerentola* and the world premiere of *Joe's Odds*, composed by Bruce Trinkle, associate professor of music, with libretto by J. Jason Charnesky.

The production is directed by Susan Boardman, associate professor of music. Patrick Lawrence will accompany *La Cenerentola*, while *Joe's Odds* features a chamber orchestra composed of 20 students from the School of Music conducted by Gregory Woodbridge.

Tickets are \$4.50 and are available through the Arts Ticket Center at Eisenhower Auditorium; by phone at (814) 863-0255; or at the Pavilion Theatre the evenings of the performance.

Concert at DuBois

Singer and songwriter Karen Goldberg will give a free performance at Penn State DuBois at 7:30 p.m. Tuesday, April 22, in Hiller Auditorium.

Goldberg also will be a part of the Earth Day celebrations being held in the School Plaza on campus from noon to 4 p.m. Wednesday, April 23.

For more information, call Missy Duttry, student life coordinator, at (814) 375-4766.

Annual Palmer gala

The Friends of the Palmer Museum of Art will hold their annual black-tie fund-raiser, a Venetian masked ball, beginning at 6:30 p.m. Saturday, April 26, at The Penn State Lancaster.

Proceeds benefit the Palmer Museum of Art. Reservations are due by April 18. For more information or to make reservations, call (814) 865-7672.

Children's literature

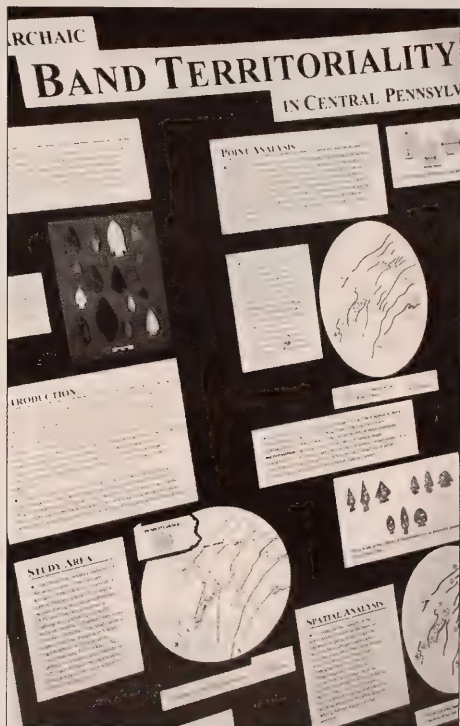
The Patten Library Rare Books Room's current exhibit, "German Children's Literature in English Translation," runs through July 18.

A large part of the University Libraries' Allison-Shelley Collection is a great number of German children's stories and fairy tales that have been translated into English. The Allison-Shelley Collection also houses noteworthy original illustrations for some of the fairy tales.

"Race Records"

An exhibit titled "Race Records" that highlights contributions of African American musicians is now on display in the African American Studies Room of Pattee Library on the University Park campus and will run through July. This showcase explores the history of sound recordings made by African American artists in the early days of the recording industry, the industry's exploitation of those artists and the lasting legacy of that music itself, early blues and jazz.

THE TWELFTH ANNUAL



Alisa N. Strauss, a graduate student in the Department of Anthropology in the College of the Liberal Arts had her research, "Late Archaic band territoriality in central Pennsylvania," on display at the Twelfth Annual Graduate Research Exhibition, held March 21-22 on the University Park campus.

The 12th Annual Graduate Research Exhibition, held in the Hetzel Union Building on the University Park campus March 21 and 22, featured the work of 172 graduate students in 143 poster exhibits and nine performances.

Research topics ran the gamut from how light makes vines climb to how to build miniature ultrasonic motors. Rain drops, the Blue Band, rodeo and extra-solar planets were among the projects displayed and explained by graduate students from 56 graduate programs. The new Performance Option included presentation of arias from Donizetti and Verdi, piano works by Liszt and Scriabin, and dramatic renditions of the lives of Edith Wharton and Emily Dickinson.

Prizes totaling \$10,000 were awarded to 42 performances or posters in six categories: Arts and Humanities; Engineering; Health and Life Sciences; Performance Option; Physical Sciences; and Social and Behavioral Sciences.

Some 73 faculty and 46 graduate student judges graded the poster exhibits in three areas: content (50 percent of the total score), display (30 percent) and oral presentation (20 percent). The analogous areas for the Performance Option were artistry, technique and suitability.

The Graduate Research Exhibition was established in 1986 to celebrate research as an essential and exciting part of graduate education at Penn State. The dual goals of this University-wide exhibition are to highlight the importance of research and creative activities to graduate education and to emphasize the importance of communicating research and scholarship to the general public. The addition of the Performance Option this year extended the opportunity to participate in the exhibition to those graduate students whose research and scholarship cannot be presented as a poster.

"The Graduate Research Exhibition showcases the wide variety of research opportunities available to Penn State graduate students," **Rodney Erickson**, dean of the Graduate School, said. "It fosters communication across disciplines and introduces the wider community to the significance of our \$348-million-per-year research program."

The 12th Annual Graduate Research Exhibition was sponsored by the Graduate School and organized by the Graduate Council Committee on Research, whose members are: **Christine Clark-Evans**, associate professor of French and Women's Studies; **Charles L. Croskey**, professor of electrical engineering; **Derek Elsworth**, associate professor of mining engineering; **James Fairbank**, graduate student in business administration; **Ladislav Semali**, assistant professor of education; **Susan Vanucci**, associate professor of pediatrics; and **Frederick Williams**, associate professor of biology.

GRADUATE RESEARCH EXHIBITION

March 21-22, 1997
University Park

Winners of the 12th Annual Exhibition

WINNING EXHIBITORS BY AREA OF ENTRY

ARTS and HUMANITIES

First: **Ihab M.K. Elzeyadi**

Exhibit title: "Designing for Visual Comfort in the Non-Orthogonal Office Space: The Physical, Psychological and Social Effects of Tilted Windows on Employees' Perceived Comfort in the Indoor Work Environment"

Department: Architecture (College of Arts and Architecture)

Adviser: **Sidney Cohn**

Second: **Heather Richardson Hayton**

Exhibit title: "Making Love Work: The Social Function of Desire in the Middle Ages"

Department: Comparative Literature (College of the Liberal Arts)

Adviser: **Robert R. Edwards**

Honorable Mention: **Don-John Dugas**

Exhibit title: "Marketing the Bard: Jacob Tonsen's 1709 Edition of the Works of Mr. William Shakespeare"

Department: English (College of the Liberal Arts)

Adviser: **Robert D. Hume**

Honorable Mention: **Paola Gemme**

Exhibit title: "Domesticating Foreign Struggles: Narratives of the Italian Risorgimento and American National Identity, 1820-1870"

Department: English (College of the Liberal Arts)

Adviser: **Susan K. Harris**

Honorable Mention: **Deborah J. Santiago**

Exhibit title: "An Investigation of Vocalization as an Instrumental Rehearsal Technique"

Department: School of Music (College of Arts and Architecture)

Adviser: **Keith Thompson**

ENGINEERING

First: **Oguz Uzul, Todd Klaput**

Exhibit title: "Preliminary Study of Active Flow Control Around an Isolated Airfoil"

Department: Aerospace Engineering (College of Engineering)

Adviser: **Cengiz Camci**

Second: **Edgard Carvalho, Colleen Merritt**

Exhibit title: "The Elicitation of Plant Root Cultures of the Production of Chemicals"

Department: Chemical Engineering (College of Engineering)

Adviser: **Wayne Curtis**

Second: **Xian Liu**

Exhibit title: "Submicron X74 Dielectric Materials"

Department: Materials (Intercollege)

Adviser: **C.A. Randall**



Lily M. Wang from the Department of Acoustics in the College of Engineering exchanges information on her project, "Characterizing the Radiated Sound Field Around a Violin Source Using Planar Nearfield Acoustic Holography," with a few of the hundreds of visitors to the event.

Second: **Chungyung Wu, Gary Neal**

Exhibit title: "Global Workpiece Positioning System"

Department: Mechanical Engineering (College of Engineering)

Advisers: **Martin W. Trethewey, Edward C. DeMeter**

Third: **Roderick S. Thomas**

Exhibit title: "Development of a Programmable, Multiple Supplement Cattle Feeder for Pasture Use"

Department: Agricultural and Biological Engineering (College of Agricultural Sciences)

Adviser: **Dennis R. Buckmaster**

Third: **Lily M. Wang**

Exhibit title: "Characterizing the Radiated Sound Field around a Violin Source Using Planar Nearfield Acoustic Holography"

Department: Acoustics (Intercollege)

Adviser: **Courtney Burroughs**

Honorable Mention: **Sajid Alavi**

Exhibit title: "A Dynamic Microbial Growth Model for Packaged Milk"

Department: Agricultural and Biological Engineering (College of Agricultural Sciences)

Adviser: **V.M. Puri**

Honorable Mention: **Manjmath Chatterjee, Gregory Simon**

Exhibit title: "Automatic SPICE Netlist Generation from Schematic Diagrams using Feedforward Neural Networks"

Department: Electrical Engineering (College of Engineering)

Adviser: **N.K. Bose**

Honorable Mention: **Tom Owino**

Exhibit title: "Time Domain Reflectometry for Water Content Measurement in Greenhouse Growing Mediums"

Department: Agricultural and Biological Engineering (College of Agricultural Sciences)

Adviser: **James Hamlett**

HEALTH and LIFE SCIENCES

First: **Kimberly A. Shafer-Weaver**

Exhibit title: "Phenotypic characterization of IL2 stimulated lymphoid cells that exhibit novel antibacterial activity"

Department: Veterinary Science (College of Agricultural Sciences)

Adviser: **Lorraine Sordillo**

Second: **Jennifer Dawn Puffett**

Exhibit title: "Ozone Induction of the Death Program"

Department: Plant Physiology (Intercollege)

Adviser: **Eva Pell**

Second: **Jorge M. Vivanco**

Exhibit title: "Mirabilis expansa, a promising crop from the Andes of Peru"

Department: Plant Pathology (College of Agricultural Sciences)

Adviser: **Hector Flores**

Winners

continued from page 2

HEALTH and LIFE SCIENCES (continued)

Second: Christina Wells

Exhibit title: "Fine Root Turnover in Apple: Implications for Fruit Tree Physiology and Management"

Department: Plant Physiology (Intercollege)
Adviser: David Eissenstat

Third: Zucai Suo

Exhibit title: "How HIV-1 reverse transcriptase reads through RNA secondary structures"

Department: Chemistry (Eberly College of Science)
Adviser: Kenneth A. Johnson

Third: Istvan A. Urcuyo

Exhibit title: "Vestimentiferan Growth in the Hydrothermal Vent System of the Juan de Fuca Ridge"

Department: Biology (Eberly College of Science)
Adviser: Charles Fisher

Third: Michael P. Woods

Exhibit title: "Elucidating the Gal3p-Gal80p-Gal14p Transcription Activation Switch"

Department: Biochemistry and Molecular Biology (College of Medicine)
Adviser: James E. Hopper

Honorable Mention: Derek Lindbergh Kalp

Exhibit title: "The Effect of the Exterior Environment on the Level of Engagement of Alzheimer's Disease Residents in the Interior Spaces of an Alzheimer's Care Facility"

Department: Landscape Architecture (College of Arts and Architecture)
Adviser: Sidney Cohn

Honorable Mention: Gina Pighetti

Department: Veterinary Science (College of Agricultural Sciences)

Exhibit title: "Dietary vitamin E and selenium deficiency impairs iron internalization by immune cells"

Adviser: Lorraine Sordillo

Honorable Mention: Chunlei Su

Exhibit title: "Isolation of Virulence Genes Expressed in *Staphylococcus aureus* by Subtractive Hybridization"

Department: Veterinary Science (College of Agricultural Sciences)
Adviser: Lorraine Sordillo

Honorable Mention: Lisa M. Tarantino

Exhibit title: "Mapping Genes for Alcohol-Related Traits in Mice"

Department: Genetics (Intercollege)
Adviser: Gerald E. McClearn



James Wall, left, explains the research on "Community Costs of Technical Skills Deficits: a Pennsylvania Case Study" that he is working on with Holly Tucker and Cynthia Pellach in the Department of Adult Education, Instructional Systems and Vocational and Industrial Education in the College of Education.

PERFORMANCE OPTION

First: Svetlana Brandt

Exhibit title: "8 Preludes from 24 Piano Preludes Op. 11 by Alexander Scriabin (1872 - 1915)"

Department: School of Music (College of Arts and Architecture)
Adviser: Donald Hopkins

First: Anthony Irons

Exhibit title: "An adaptation of The Farmer and the Snake by Uncle Remus"

Department: Theatre Arts (College of Arts and Architecture)
Adviser: Charles Dumas, Jane Ridley

Honorable Mention: Seong-Ae-Lim

Exhibit title: "Liszt's Hungarian Rhapsody No. 8 in f-sharp minor"

Department: School of Music (College of Arts and Architecture)
Adviser: Steven Smith

Honorable Mention: Heather Renee Landry

Exhibit title: "The Belle of Amherst"

Department: Theatre Arts (College of Arts and Architecture)
Adviser: Jane Ridley

PHYSICAL SCIENCES

First: Darren M. Williams

Exhibit title: "Habitable Moons around Extrasolar Giant Planets"

Department: Astronomy and Astrophysics (Eberly College of Science)
Adviser: James F. Kasting

Second: Lora L. Burns

Exhibit title: "A comparison of the folding mechanism of three B-sheet proteins with similar structures"

Department: Biochemistry and Molecular Biology (College of Medicine)
Adviser: Ira J. Ropson

Third: Tim Dunbar

Exhibit title: "Molecular Wires and Self-Assembled Monolayers"

Department: Chemistry (Eberly College of Science)
Adviser: Dave Allara

Honorable Mention: James Kushmerick

Exhibit title: "Adsorption Dynamics of Benzene on Ni(110) at 4K"

Department: Chemistry (Eberly College of Science)
Adviser: Paul S. Weiss

SOCIAL and BEHAVIORAL SCIENCES

First: Myeong-Ho Sohn

Exhibit title: "Does Practice Make Perfect? Well ... not exactly"

Department: Psychology (College of the Liberal Arts)
Adviser: Richard A. Carlson

Second: Alisa N. Strauss

Exhibit title: "Late Archaic Band Territoriality in Central Pennsylvania"

Department: Anthropology (College of the Liberal Arts)
Adviser: James Hatch

Second: James Wall, Holly Tucker, Cynthia Pellach

Exhibit title: "Community Costs of Technical Skills Deficits: A Pennsylvania Case Study"

Department: Adult Education, Instructional Systems and Vocational and Industrial Education (College of Education)
Adviser: David Passmore

See "Winners" on page 4



Chao Zhang, above left, demonstrates his "Thermoacoustic refrigerator design and study" research to an interested observer. Zhang is studying in the Department of Physics in the Eberly College of Science, and was one of 172 graduate students whose work was represented in 143 poster exhibits, left, and nine performances at the 12th Annual Graduate Research Exhibition, held in the Hetzel Union Building on the University Park campus March 21 and 22.

Keynote Lecture

Preparing for a new reality

Michael J. Zigmund, professor of neuroscience, psychiatry and education at the University of Pittsburgh, opened the 1997 Graduate Research Exhibition with a discussion on professional skills and responsible conduct in graduate education.

In his address, "Preparing to Survive in the Next Millennium," Zigmund spoke of the changing face of the academic job market as the 20th century comes to a close, and of the need to change graduate education in order to prepare students for this new reality.

He stressed the importance of better mentoring by faculty, most of whom faced a much different outlook during their own training. Today's faculty, Zigmund said, need to recognize that only one in four of their graduate students will likely find a "traditional" tenure-track job in a research university. Most will migrate into other areas, including industry, consulting or less research-oriented educational settings. Faculty need to do more to recognize the validity of these non-traditional options.

Zigmund also called on graduate students to take a more active role in getting the training they need, and to do more long-term career planning. American universities, Zigmund said, need to match the excellent training they offer in academic and laboratory skills with a new focus on "survival skills," including written and oral communication, finding and maintaining a job, obtaining outside funding, supervising staff and students, teaching and being responsible ethical professionals. He applauded the increase in formal programs aimed at teaching these skills.

Zigmund received his Ph.D. at the University of Chicago in 1968. His research focuses on the neurobiology of synaptic transmission in the brain, as well as on such neurological and psychiatric disorders as Parkinson's disease, posttraumatic stress disorder, depression and schizophrenia. His lecture was sponsored by the Graduate School.

Copy and photographs for this special section were provided by the Graduate School.

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Winners

continued from page 3

SOCIAL and BEHAVIORAL SCIENCES (continued)

Third: Natasha Miller

Exhibit title: "An Investigation of Language Production Errors in Bilinguals"

Department: Psychology (College of the Liberal Arts)

Adviser: Judy Kroll

Third: Mrutyunjay Sarangi

Exhibit title: "Pattern of Fertility Decisions and Contraceptive Use in Rural India"

Department: Agricultural Economics and Rural Sociology (College of Agricultural Sciences)

Adviser: C. Shannon Stokes

Third: Hsiu-Ping Yueh, Fiona Feng-Hsin Liu, Po-Ching Wang

Exhibit title: "The Effectiveness of a Multiperspective Electronic Performance Support Systems (EPSS) in a Whole Language Reading, Writing and Children's Literature Classroom"

Department: Adult Education, Instructional Systems and Vocational and Industrial Education (College of Education)

Adviser: Patrick Shannon

Honorable Mention: Stephanie Hyatt

Exhibit title: "Modeling Stage Sequential Data on Substance Use Using Latent Transitional Analysis"

Department: Human Development and Family Studies (College of Health and Human Development)

Adviser: Linda Collins

Honorable Mention: Julie Kraut

Exhibit title: "A Dynamic Analysis of Young Women's Family Formation Decisions"

Department: Economics (College of the Liberal Arts)

Adviser: David Shapiro

Honorable Mention: Janet Schulenberg, Hilary Kluger

Exhibit title: "Well-Being in Medieval Southern Europe: Man Cannot Live by Bread Alone"

Department: Anthropology (College of the Liberal Arts)

Adviser: Dean R. Snow

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, April 11

■ The 19th Annual Penn State Slavic Folk Festival, 10 a.m. to 10 p.m., Ballroom, Hetzel Union Building.
Kern Graduate Commons, noon, Kern Lobby. Concert titled "Belamya Trio."

Palmer Museum of Art, 2 p.m. Gallery Talk presents Robin Seymour on "The Steigitz Circle."
School of Music, 8 p.m., Recital Hall. Student Recital presents Shawna Gluck, piano.
University Student Theatre Company, 8 p.m., Pavilion Theatre. "The Lion in Winter" through April 12. For tickets, phone (814) 863-0255.

Saturday, April 12

■ The 19th Annual Penn State Slavic Folk Festival, 10 a.m. to 10 p.m., Ballroom, Hetzel Union Building.
Palmer Museum of Art, 11:30 a.m., Christophers Lobby. Gallery Talk presents Catherine Clerici on "American Watercolors at the Palmer Museum."

■ School of Music, 2 p.m., 110 Music I. Children's Opera.
School of Music, 3 p.m., Recital Hall. Student Recital presents Erik Kirby, trombone.
Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Cleo Laine and The John Dankworth Group." For tickets, phone (814) 863-0255.

Sunday, April 13

■ The 19th Annual Penn State Slavic Folk Festival, 12:30 to 6 p.m., Ballroom, Hetzel Union Building.
School of Music, 2 p.m., Recital Hall. Student Recital presents Tom West, clarinet.
■ School of Music, 2 p.m., 110 Music I. Children's Opera.
School of Music, 8 p.m., Recital Hall. Student Recital presents Shannon Love, organ.
School of Music, 8 p.m., 122 Music II. Graduate Recital presents Jason Plosch, trumpet.

Tuesday, April 15

■ Nittany Valley Symphony, 8 p.m., Eisenhower Auditorium.
Opera, Spanish Passions. For tickets, phone (814) 863-0255.

Wednesday, April 16

■ Palmer Museum of Art, 2 p.m. Katherine Benz on "Italian Baroque Painting at the Palmer Museum."
School of Music, 8 p.m., Recital Hall. Percussion Ensemble.

Thursday, April 17

Center for Quality and Planning and the University Council on Continuous Quality Improvement, 11 a.m. to 3 p.m., The Nittany Lion Inn. "Quality Expo."
School of Music, 8 p.m., Recital Hall. Student Recital presents Sarah Renzi, piano.

Friday, April 18

Kern Graduate Commons, noon, Kern Lobby. Concert titled "Hot Mamas."
Center for the Performing Arts, Eisenhower Auditorium, 8 p.m. "To Kill a Mockingbird." For tickets, phone (814) 863-0255.
School of Music, 8 p.m., Recital Hall. Student Recital presents Meredith Malone, vocal jazz.
School of Music, 8 p.m., Pavilion Theatre. Opera, eve's odds, through April 19. For tickets, phone (814) 865-0431.
School of Music, 8 p.m., 122 Music II. Graduate lecture/recital with Rolando Fregoli, violin. For tickets, phone (814) 865-0431.

Saturday, April 19

Palmer Museum of Art, 11 a.m., Christophers Lobby. Storyteller Jan Kinney presents tales for the entire family.
School of Music, 7 p.m., Recital Hall. Student Recital presents Julie Lybarger, horn.
Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Syracuse Symphony Orchestra." For tickets, phone (814) 863-0255.
World Wrestling Federation, 8 p.m., The Bryce Jordan Center. For tickets, phone (814) 865-5555.

SEMINARS

Friday, April 11

The Institute for Policy Research and Evaluation, the Center for Health Policy Research and the Department of Health Policy and Administration, 1 to 2:30 p.m., The Living Center, Henderson. Cynthia Massie on "Long-Term Care: A Policy of Fragmentation."

Monday, April 14

Continuing and Distance Education and the College of Education's Adult Education Program, 11:45 a.m. to 1 p.m.,



On display

The Pattee Library Rare Books Room's current exhibit, "German Children's Literature in English Translation," includes original illustrations for some of the fairy tales. The exhibit runs through July 18.

502 Keller. Wesley E. Donahue and John E. Park on "Management Development Program from an Adult Education Perspective."

■ Australia-New Zealand Studies Center, 12:15 p.m., 101 Kern. Desmond O'Grady on "Bouras Estate, O'Grady's Italy: The Experience of Two Expatriate Australian Writers."

Agricultural and Biological Engineering, 12:20 p.m., 239 Agricultural Engineering. K.G. Karthikeyan on "Adsorption and Co-Precipitation of Copper with the Hydrous Oxides of Iron and Aluminum and Vince LaCross on "Fatigue of Deck-to-Deck Dowel Connections in Hardwood Glulam Bridges."

Gravity Center, 2 p.m., 335 Davey Laboratory. Pedro Marroñetti on "Close Neutron Star Binaries."

The Institute for High Performance Computing Applications, 3:35 to 4:25 p.m., 215 Hammond. Luigi Martinelli on "Numerical Simulation of Viscous Flow for Aerodynamic Analysis and Design."

Tuesday, April 15

Veterinary Science, 9 to 10 a.m., 221 Henning. Stephen Sundin on "Science and Uncertainty in Regulatory Decision Making."

Nutrition, 4 p.m., S-209 Henderson. Richard Schulz on "Why is Vitamin E Such an Effective Antioxidant?"

Geoscience, 4 p.m., 112 Walker. Julie Cole on a subject TBA.
■ Biology, Ecology and the Marine Science Society, 4 p.m., 8 Mueller Laboratory. Kim Juniper on "Between a Rock and a Hot Place — Faunal Community Dynamics and Hydrothermal Chimney Growth at the Juan de Fuca Seafloor Observatory."

Journalism, 4:30 p.m., Carnegie Cinema. Steve Weinberg on "The Shame and Success of Investigative Reporting: Unethical and Ethical Conduct."

The Central Pennsylvania Chapter of The Fulbright Association, 5 to 6:30 p.m., International Lounge, 222 Boucke. Stephen M. Smith on "The Amish Response to a Changing World."

Office of Volunteer Programs and Services, 7 p.m., 112 Kern. Tara Hollan on "Literacy in America."

Health and Human Development, 7 p.m., Penn State Scenic Center. Elynn Satter on "Feeding with Love and Good Sense."

■ Australia-New Zealand Studies Center, 7:30 p.m., Rare Books Room. Pattee Library. Desmond O'Grady on "Italians in 19th Century Australia."

Wednesday, April 16

Faculty Staff Club and the Penn State Bookstore, 11:30 a.m., The Nittany Lion Inn. Bryce Jordan on "Maintaining and Improving Public Trust: A Challenge for Our Universities." Tickets available at 110 Hetzel Union Building.
Population Research Institute, 11:45 a.m., 406 Oswald Tower. Clarence Weinberg on "Biological Issues in Population Research."

Business, 2 to 4 p.m., 215 Ambsy. Donald F. Dufek on "Economic Consumer Response."
Engineering Science and Mechanics, 3:35 p.m., 215 Hammond. Russell F. Messier on "Sculptured Thin Films."
Center for Women Students, 8 p.m., Schwab Auditorium. Jane Goodall to speak. Tickets are available at 225 Hetzel Union Building.

Thursday, April 17

Sigma Xi, The Scientific Research Society, noon, The Living Center, 110 North Henderson. Virendra M. Puri on "Powders — Why Won't They Flow?"

Food Science, 4 p.m., 117 Borland Laboratory. Hassan Gourama on "Biocatal of Mold Growth and Mycotoxin Production."

Mechanical Engineering, 4 p.m., 125 Reber. Ali Hasan Nayfeh on "Can the Engineer Ignore Nonlinear Phenomena?"

English, 5 p.m., 301 Hetzel Union Building. Cynthia Hogue will read from her poems.

■ Australia-New Zealand Studies Center, the Office of International Programs and the Equal Opportunity Planning Committee, 7 p.m., Assembly Room, Hetzel Union Building. Edward Joseph Perkins on "The Emerging Role of the Asia-Pacific Region in Global Affairs: Responses from and Cooperation between the United States and Australia."

Friday, April 18

■ Australia-New Zealand Studies Center, the Office of International Programs and the Equal Opportunity Planning Committee, noon conference room, Paul Robeson Cultural Center. Edward Joseph Perkins on "African Diplomacy and Politics in Sub-Saharan Africa."

■ Australia-New Zealand Studies Center, the Office of International Programs and the Equal Opportunity Planning Committee, 10 a.m., International Lounge, 222 Boucke. Edward Joseph Perkins on "Positioning Universities for their International Role: A Career Diplomat's Perspective."

Physics, 3 p.m., S5 Osmond Laboratory. Alan Sokal on "What the Social Text Affair Does and Does Not Prove."

EXHIBITS

HUB Art Alley Panels

Oil and print exhibit by Amy Jane Whitney and Darren R. Gier, through May 4.

HUB Browsing Gallery

■ "Photographs of Australia" by Richard Woldendorp, through April 27.

HUB Formal Gallery

Mixed media works by Howard Brooks, through May 4.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

North Halls

Paintings by Jodi Ruffner, through April 30.

Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolorists," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 15.

"Exotic Illustrations: Art, Romance and the Marketplace," through June 15.

Zoller Gallery

School of Visual Arts, "MFA Thesis Exhibitions," ceramics by Danielle Mortier and Rebecca Wostrel, April 19 through 28.

■ Reflects an international perspective

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://icac.psu.edu/calendar/>

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Corning Asahi at Expo

Teams are a key to improving performance, but many organizations fail to realize the full potential of teams. At the Quality Expo on April 17 from 12:45 - 1:30 p.m. in the Nittany Lion Inn Fireside Lounge, a Quality Circle on "Maintaining Momentum in a Quality Organization" will be introduced by David Wormley, dean of the College of Engineering, and will feature Steve Groves, Corning Asahi vice president, Dave Butt, associate professor in The Smeal College of Business Administration, and Fred Loomis, director of administration in Continuing and Distance Education. These presenters will provide a corporate model for high-performing work systems and explore practical ways that teams can be most effective in a variety of organizational settings.

Advising via the Web

Thanks to the work of the members of the Comprehensive Academic Advising and Information System team, students can access a Web site to receive a summary of their academic history, predict their semester GPA, request a copy of a degree audit, view their transcripts, receive information about a federal loan, access information about curriculum and policies and receive career assistance. The system is available at <http://caais.psu.edu/>. Project team members are: Ross Brode, Gary Hile, Jim Kelly, Anne Kepler, Mike Leonard, Jim Levin, Steve Littell, Scott Smith and Sue Winick. Technical team members are Anne Myske-Memoli, Daryl Hoffman and Judy Evock. Project sponsors are John Cahir and John Romano. Collaboration design team members are Ken Blythe, Gene Melander, James Wager and Eric White.

"Take Note"

John Brighton, executive vice president and provost, will talk about the Quality Expo on "Take Note" with Host Patricia at 5:45 p.m. Friday, April 11, on WPXS-TV.

For more information about Continuous Quality Improvement, contact Louise Sandmyre, executive director of the Center for Quality and Planning at (814) 863-8721, or e-mail les10@psu.edu. The center's Web site is <http://www.psu.edu/president/cqi>.



View from down under

Students in Craig Brown's Scuba class wait their turn to dive to the bottom of the pool at the McCoy Natatorium on the University Park campus. The photograph was taken through one of the pool's viewing portals.

Photo: Greg Grieco

Faculty/Staff Alerts

Seats available

Tickets are still available for those who want to attend a talk by former Penn State President Bryce Jordan at The Nittany Lion Ballroom on Wednesday, April 16 as part of the Penn State Forum lecture series.

Jordan will discuss "Maintaining and Improving Public Trust: A Challenge for Our Universities." Lunch will begin at 11:30 a.m. and the talk will begin at noon. Tickets are \$10 and include lunch. Reservations can be made by calling the Faculty Staff Club at (814) 865-7590.

Upcoming courses

The following professional development programs are being offered by the Human Resource Development Center. To register for free programs, please call (814) 865-8216. Registration for programs with fees requires a completed registration form located on page 63 of the HRDC course catalog.

■ **Motivating and Empowering Employees for Success**
Meets April 16 from 8:30-11:45 a.m. in 118 Agricultural Science and Industries Building. Cost: \$35.

■ **Coaching for Exceptional Performance**
Meets April 16 from 1:15-4:45 p.m. in 319 Rider Building. Cost: \$35.

■ **Managing Your Boss**
This program provides participants with strategies and skills to effectively manage reporting relationships and work dynamics with their boss. Meets April 17 from 1:15-4:30 p.m. in 319 Rider Building. Cost: \$35.

■ **Applying Mediation Skills to Conflicts at Work and Home**

This program introduces mediation techniques to participants who deal with disagreements between co-workers in the workplace, or who are interested in learning new skills for resolving conflicts in personal relationships. Meets April 18 from 9 a.m. to 4 p.m. in 319 Rider Building. Cost: \$55.

■ **Maximizing Your Memory Power**
Meets April 21 and 23 from 1:30-4:30 p.m. in 118 Agricultural Science and Industries Building. Cost: \$55.

■ **Continuous Achievement: How to Increase Effectiveness at Work**
Meets Monday and Friday, April 12 and 25, from 8:30 a.m. to noon in 319 Rider Building. Cost: \$55.

■ Leading the Transformation

This program will help you plan strategies for change in your organization. Meets April 23 from 2-4 p.m. in 319 Rider Building. Cost: \$25.

■ The "Sound" of Leadership

This program helps participants refine voice qualities to create positive perceptions and develop interpersonal power. Meets April 23, 30 and May 7 from 8:30-11:30 a.m. in 319 Rider Building. Cost: \$65.

Commencement accommodation advice

Parents and families unable to find hotel/motel accommodations in the State College/Centre County area for commencement weekend, May 16-17 at the University Park campus, can rent a residence hall room on the campus. The compressed commencement schedule this year has placed a greater demand on rooms for guests, especially on Friday, May 16.

Visitors can reserve residence hall rooms beginning April 30 by calling the following toll free number: (800) 778-8006. Details and payment arrangements will be explained. To check on availability for either hotel/motel rooms or bed and breakfast in Centre County call (800) 358-5466. Families also may find accommodations in nearby communities.

Job postings

The staff vacancy listing that is printed and distributed from the employment office is available on the Web. To print the file the user must have Adobe Acrobat installed on their machine. This document also assumes that the user is using a Web browser and is connected to the Internet or the Penn State backbone. Each Wednesday the file will be updated with the current week's postings. To get the link connect to <http://www.ohr.psu.edu/home.htm>. The link is titled "All Staff Vacancies for work area postings."

Survey results online

The IBM Master Teacher Team, a consortium of award-winning faculty from the College of Engineering and The Smeal College of Business Administration, posted results of a survey of about 1,000 undergraduates in those colleges on opinions of the 10 best teaching practices employed by various instructors. "Professors Review Best Teaching Practices" correlates the data with college, gender, semester standing and GPA and is available at <http://www.csm.psu.edu/practices.html>.

Awards

Assistant math professor is named Sloan Research Fellow

The Alfred P. Sloan Foundation has selected **Dmitri Burago**, assistant professor of mathematics, as an Alfred P. Sloan Research Fellow. The foundation awards 100 fellowships annually to faculty in the United States and Canada who are in the early stages of their research careers and who have exceptional promise to contribute to the advancement of knowledge in physics, chemistry, computer science, mathematics, neuroscience or economics.

Burago's research involves differential and Riemannian geometry. His studies of periodic curved n-dimensional spaces, like those obtained by mass distributions in general relativity, are proving applicable to many other problems.

Burago received his diploma of mathematician, summa cum laude, in 1986 and his candidate of physical and mathematical sciences in 1992 from the St. Petersburg State University in Russia. He



DMITRI BURAGO

became an assistant professor in the Department of Mathematics and Mechanics at St. Petersburg State University in 1990. He moved to the University of Pennsylvania as a postdoctoral lecturer in the David Rittenhouse Laboratory in 1994 and then joined Penn State as an assistant professor in 1995. Burago received a Faculty Scholar Medal for Outstanding Achievement in 1996.

Began in 1955, the Sloan Fellowship Program is one of the oldest fellowship programs in the nation. Sloan Fellows receive unrestricted grants of \$35,000 for a two-year period, with which they are free to pursue whatever lines of research inquiry are of most interest to them. According to the foundation, this flexibility often is of great value to young scientists who are at a pivotal stage in establishing independent research projects.

Assistant professor of English honored with an award for distinguished service

John C. Tamplin, assistant professor of English at Penn State Shenango, received the Distinguished Service Award from the Eastern Community College Social Science Association.



JOHN C. TAMPLIN

The award recognized Tamplin for his work in founding the organization's journal and serving as its editor-in-chief for the past 12 years. The *ECSSA Journal*, now international in its scope, publishes scholarly and pedagogical articles dealing with the social sciences.

The award also recognized Tamplin for the papers he has presented at past annual conferences, as well as for his publications. In addition, the plaque notes that during Tamplin's 20-year membership in the organization, he has been elected to three terms on its executive board.

At its most recent meeting, Tamplin was re-elected to a fourth term on the executive board and re-appointed to a 13th term as journal editor.

Metallurgy professor honored for contributions to field

Kwadwo Osseo-Asare, professor of metallurgy and chair of the Metals Science and Engineering Program in the Department of Materials Science and Engineering, was awarded the James Douglas Gold Medal from the American Institute of Metallurgical Engineers for his "contributions to the fundamental understanding of interfacial phenomena in leaching, solvent extraction and particle synthesis." The James Douglas Gold Medal award was established by the institute in 1922 "to recognize distinguished achievement in nonferrous metallurgy, including both the

beneficiation of ores and the alloying and utilization of nonferrous metals."

Osseo-Asare obtained B.S., M.S. and Ph.D. degrees from the University of California, Berkeley. His Ph.D. research covered thermodynamic modeling and adsorption phenomena in aqueous processing.

Before joining Penn State in 1976, he worked as a research metallurgist and project leader on nickel and cobalt extraction and refining at Amax Extractive Research Laboratories in Golden, Colo.

Professor earns Solid State Science, Technology Award

Karl E. Spear, professor of ceramic science, has received the Solid State Science and Technology Award, a major award presented by the Electrochemical Society to honor an individual who has made distinguished contributions to the field.

Spear has been a member of the Penn State faculty since 1970. He has served as chair of the Ceramic Science and Engineering Program and is an active member of the interdisciplinary graduate program in materials.

He was associated with the Materials Research Laboratory from 1970 to 1987 and is the author of 145 technical

papers and three patents, primarily on the application of high temperature chemistry and thermodynamics in understanding the behavior of complex materials. Working with **James Leitnaker** of Oak Ridge National Laboratory, he modeled the complex chemistry of dynamically reacting nuclear fuels operating at high temperatures, and gained two patents for safer, longer-life fast-breeder reactor fuels.

Spear is an elected Fellow of the American Ceramic Society and the Electrochemical Society and is currently chair of the ECS High Temperature Materials Division.

Professor awarded for his research accomplishments

Alcoa professor of the solid state **Robert E. Newham** was presented with the 1996 David Turnbull Lecture Award from the Materials Research Society.

The award is given each year to one professor, selected from a national field of candidates, in honor of the person's accomplishments as a researcher and communicator. Newham was presented the



ROBERT E. NEWHAM

award "for pioneering the field of ceramic composites for electronic and optical applications, and in recognition of a distinguished career of guiding students, lecturing and writing."

During the past year Newham also was the Plenary Lecturer for the International Union of Crystallography and a member of

the National Academy of Science MEMS committee.

Penn State Erie receives \$1.1 million donation

Kay Logan, an Erie resident and long-time philanthropist of the arts and education, has given Penn State Erie, The Behrend College, \$1.1 million to fund the purchase, renovation and furnishing of the former Mack estate at the northeastern entrance to the campus on Station Road. In March, the Board of Trustees approved naming the building Logan House.

University officials, in collaboration with Kay Logan, have designed a program for use of the 19th-century Georgian colonial home which they believe will make it a "place of the heart, kindling shared experiences and lasting friendships." Logan House will be the setting for lectures, poetry and literary readings, discussions and music performances.

Students will be invited to attend dinner followed by class with their professors as a significant component of the program at Logan House. Training in etiquette, important in business and professional settings, will be held at the beginning of each evening. In addition, Logan House will be available for activities sponsored by student and faculty organizations. Penn State Erie's Office of Development and University Relations is housed on the second floor.

"The growth — not just in numbers, but in excellence — of the Penn State-Behrend campus dictated the necessity for the purchase of the house," Logan said. "There can now be a suitable setting for the development of innovative, non-traditional programs that provide an even more complete education."

Logan's support of the project is a tribute to her late husband, **Harry A. Logan Jr.**, former chairman of the board and president of United Oil Refining Co. in Warren, Pa. The Logan family is known for its enthusiasm, creativity and philanthropic support of the arts and education. Mrs. Logan is the founder of Music at Noon. The Logan Wintergarden Series, the popular luncheon series now in its seventh season at Penn State-Behrend.



Cultural center in the making

The former Mack estate at the northeastern entrance to Penn State Erie, The Behrend College, will be renamed Logan House in honor of Kay Logan, who is donating \$1.1 million for the home's purchase and renovation. Logan House will be the setting for lectures, poetry and literary readings, discussions and music performances.

The 6,700-plus square-foot structure, completed in 1928, features 20 rooms, three fireplaces and verandas, balconies, terraces and patios. It was originally built by E. H. Mack, founder of the Boston Store and the Erie Endowment, which later became the Erie Community Foundation. The home's formal rooms, including the Helen Temple Logan Parlor, named for Logan's mother-in-law; the Marian Logan Wendell Dining Room, named for Logan's sister-in-law; and the Harry A. Logan Jr. Club Dining

Room, named for her husband, have been professionally decorated by Charles Ambrose. Hand-carved moldings, hardwood floors and French doors throughout the home have been refinished and enhanced with period furnishings including wall coverings, artwork and oriental carpets. Susan Hale Kemenyfi, internationally-recognized artist and lecturer, has designed the gardens.

The Logan House will be officially dedicated in a ceremony planned for July 17.

Eberly College names two Alumni Fellows

Charles M. Tatum and **T. Ming Chu** have been named Alumni Fellows of the Eberly College of Science. Tatum is vice president and Global Business Unit director for plastics additives at the Rohm and Haas Co. Chu is director of cancer research and chair of the Department of Diagnostic Immunology Research and Biochemistry at Roswell Park Cancer Institute and professor of experimental pathology at the State University of New York at Buffalo. The award is the most prestigious honor given by the Penn State Alumni Association.

Tatum is a resident of North Wales, Pa. He earned a bachelor of science degree in organic chemistry, graduating cum laude in 1969 at Amherst College, and a doctoral degree in chemistry with an award for excellence in 1976 from Penn State.

He began his career at Rohm and Haas in 1979 as a senior scientist in agricultural chemicals research. In 1989, he was named research director for the company and was elected a vice president a year later. He has been head of the Plastics Additives Division since 1993 and became a member of the



CHARLES M. TATUM

Chairman's Committee in 1995.



T. MING CHU

Chu, a resident of Buffalo, N.Y., earned his master's degree at North Carolina State University in 1965 and his doctoral degree in biochemistry at Penn State in 1967. He started his career as a postdoctoral fellow at the Medical Foundation of Buffalo and Buffalo General Hospital in 1967, then became a staff

scientist at Roswell Park Cancer Institute in 1970. Since 1977, he has been director of cancer research and chairman of the Diagnostic Immunology Research and Biochemistry Department at Roswell Park and a professor of experimental pathology at the State University of New York at Buffalo.

Chu discovered prostate-specific antigen (PSA) and developed the widely acclaimed prostate-cancer-detection test, which was approved by the Food and Drug Administration in 1986 and now is in wide clinical use. This achievement has been heralded as one of the most important developments in urological oncology in the last 50 years.

He has received the Distinguished Alumni Award from Penn State and North Carolina State University.

The Alumni Fellow Award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.



Harold Harpster, associate professor of animal science, left, and graduate student Randy Swope feed formula to a calf at the Dairy Breeding Research Center on the University Park campus. Although the formula is past its expiration date for humans, their research has shown that it still has nutritional value for the livestock.

Photo: Greg Grieco

Outdated infant, geriatric formula can be fed to calves, swine

By ESTON MARTZ
College of Agricultural Sciences

Like milk, baby formula has an expiration date beyond which it is unfit for human consumption. Manufacturers, who must discard millions of pounds of outdated formula annually, have been searching for better options.

Research in the College of Agricultural Sciences shows that one promising alternative to putting formula in landfills is to use it for animal feed, an option that would save livestock producers money and cut manufacturers' disposal costs.

"Formula has great potential as animal feed because it's made of nutritious ingredients that maintain their quality well beyond the expiration date for human consumption," said Randy Swope, graduate student in animal science.

Swope and Harold Harpster, associate professor of animal science, have been looking at various food processing by-products for cattle feed. "Feeding food industry by-products to animals typically results in a win-win situation," Swope said. "The manu-

facturer cuts disposal costs, and the producer gets a source of nutrients that costs less than conventional feeds."

After comparing the nutrient content of infant and geriatric formulas with the nutritional needs of different animals, Swope and Harpster determined that geriatric formula might be good for swine, while infant formula would work for calves.

The researchers randomly assigned 30 calves at the Dairy Breeding Research Center to one of three liquid diets. Ten calves received a control diet of commercial milk replacer, while the other two groups received infant formula supplemented with either soy or whey protein concentrate. For six weeks, calves were fed the experimental diets. Then all of the calves were weaned and fed the same dry diet for four weeks to see if the experimental diets had any lingering effects.

The results show that outdated infant formula, when supplemented with a high-quality protein source such as whey, can be used safely in calf-rearing systems with substantial savings in feed costs.

Swope and Harpster also collaborated with Ken Kephart, associate professor of animal science, to study the effect of geriatric formula on swine performance. They fed 152 pigs either a conventional corn and soybean-meal diet or one that included geriatric formula and supplemental dry feed.

Pigs fed the geriatric formula grew faster during the first half of the experiment and weighed more at 84 days. "Growth rates evened out over the entire experiment, so slaughter weights were similar for both groups," Swope said. "However, pigs fed the geriatric formula consumed 65 percent less dry feed than those in the control group."

At slaughter, pigs fed the geriatric formula had less fat, more muscle and a higher percentage of lean cuts, so they were worth about \$3.50 more per pig on a commercial grading program.

The research has given producers a new source of inexpensive feed. "The cost savings from using waste formula already are very good, and they will look even better if grain and feed costs rise," said Harpster,

Research

Roundup

Four awarded grant to study family relations, hormones

Four researchers have been awarded a William T. Grant Foundation grant of \$253,318 to explore relations among testosterone, cortisol, children's family relations and behavioral development.

"Testosterone and cortisol are two hormones which hold promise to shed light on linkages between biology, behavior and environments within the context of the family," said Alan Booth, principal investigator for the study. "Up until now, the influence of testosterone and cortisol on family relations and subsequent child development has been little studied."

Booth's colleagues in this project are Susan M. McHale and Ann C. Crouter, both professors of human development and family studies, and Douglas A. Granger, assistant professor of biobehavioral health and human development.

The William T. Grant Foundation was established to support research in any medical or social-behavioral scientific discipline on the development of school-age children and adolescents.

Research shows aging affects brain function

New research in rats shows that aging affects the ability of the brain to process neurological information.

The research provides clues that may eventually help doctors to better understand and treat aging patients, a field of increasing interest as the population bulge known as baby boomers near retirement age.

The neurotransmitter serotonin plays an important role in learning, memory, cognition, sleep regulation and the experience of pain, anxiety and depression, said pharmacologist Joan M. Lakoski, associate professor at The Hershey Medical Center and co-author of the study. Serotonin-enhancing drugs such as Prozac are now commonly used to treat depression, a condition marked by low levels of certain neurotransmitters.

The study indicates that the ability to recover the serotonin function of a key part of the brain appears to decline with age, according to this female rodent model of aging.

"With this research we've identified a specific change in a brain area which has a critical role in learning and memory," she said.

Soap-box derby



Envisioneers debut "Nittany Newtonian"

The Envisioneers, student members of the Leonhard Center for the Enhancement of Engineering, were hosts for "The Nittany Newtonian," a soap-box derby race held on the walkway from Old Main to College Avenue on the University Park campus Saturday, April 5. The race was part of the 1997 College of Engineering Open House.

Students representing six engineering societies built and raced their cars. Students from The Institute of Industrial Engineers, at right, put some finishing touches on their vehicle near the starting line before their turn to race. The institute's car finished in first place.

Second place in the race went to the American Nuclear Society, top, with University Scholar Ai Moni, a third semester student majoring in nuclear engineering and music, driving.



Partings

Allen Cain Jr., maintenance worker, general A at Penn State Shenango campus, from Oct. 5, 1972, to Feb. 19, 1973, to Jan. 1.

Carol A. Christen, extension agent, College of Agricultural Sciences, from Jan. 18, 1982, to March 1.

Virginia E. Feters, press operator, offset duplicator single, Business Services, from Sept. 23, 1966, to March 28.

Bernadine L. Hahn, staff assistant VIII, Business Services, from June 16, 1972, to March 31.

Gillian D. Ratray, assistant professor of kinesiology, College of Health and Human Development, from Sept. 1, 1973, to Jan. 1.

John F. Fearick, janitorial worker, Office of Physical Plant, from Nov. 2, 1981, to Jan. 3.

Vesta B. Rimmey, staff assistant V, Business Services, from April 1, 1983, to Jan. 1.

Betty M. Rininger, staff assistant VII, College of Health and Human Development, from Aug. 8, 1983, to Jan. 1.

Herbert A. Rogers, maintenance worker, general A at Penn State Worthington Scranton campus, from April 4, 1983, to Jan. 4.

Dean S. Rossman, farm supervisor, College of Agricultural Sciences, from July 1, 1972, to Jan. 1.

Blair J. Smith, associate professor of agricultural economics, College of Agricultural Sciences, from July 1, 1974, to Dec. 31, 1996.

Regina S. Steeber, staff assistant VI at Penn State Hazleton campus, from April 17, 1975, to Feb. 28.

Donna S. Stout, staff assistant IV, College of Agricultural Sciences, from Feb. 3, 1975, to Feb. 1.

Christine L. Templeton, coordinator of college relations, College of Communications, from Nov. 1, 1977, to Feb. 1.

Nancy J. Treat, assistant professor of human development and women's studies at Penn State Fayette campus, from Sept. 1, 1977, to Jan. 1.

Helen B. Warren, associate director, Summer Session, Office of the President, from Nov. 29, 1977, to Feb. 1.

Intercom schedule

The *Intercom* publishing schedule for the remainder of the semester and the summer, including deadlines, is as follows:

Issue	Deadline*
April 17	April 9
April 24	April 16
May 1	April 23
May 15	May 7
May 29	May 21
June 12	June 4
June 26	June 18
July 10	July 1
July 24	July 16
Aug. 7	July 30

*All copy is due by noon on the deadline day.

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Spanier testifies before Congress on merits of Internet 2 Project

By LISA M. ROSELLINI
Public Information

WASHINGTON — Despite the incredible advances in technology, there are still things that faculty and students at research universities across the country "can't do because of the limitations of a crowded Internet," according to President Graham B. Spanier, who recently urged Congress to support funding for "the next stage" of the Internet.

During his April 9 Congressional testimony on the Internet 2 Project being spearheaded by Penn State, Spanier explained the significance of the project to members of the House Subcommittee on Basic Research. Internet 2, now backed by more than 100 higher education institutions, organizations and private industries, is a new superfast computer network that U.S. universities are planning to



On the Hill

President Graham B. Spanier explained the value of a second, faster Internet to members of Congress on April 9. Penn State is one of approximately 100 universities involved in the project.

Photo: Greg Grieco

See "Spanier" on page 3

University's presence on Capitol Hill continues to increase

By LISA M. ROSELLINI
Public Information

WASHINGTON — In the last two weeks, and in weeks to come, Penn State's presence on Capitol Hill has increased dramatically as administrators take their turn at providing media interviews and expert testimony to Congress on matters that cut to the heart of higher education.

Appearing on CNN at 7:30 a.m. on April 9 to talk about admissions and then moving on to give at 8:30 a.m. keynote speech on technology to a nonprofit consortium of higher

education institutions, President Graham B. Spanier was primed on his 10:30 a.m. same-day interview on CNBC discussing the proposed Internet 2 project. Moving to the forefront on a variety of issues, Spanier is gaining recognition as a national spokesman for higher education. Determined to position Penn State as a leader in technology, research and education, Spanier said it's important that not only Penn State administrators speak out on issues that affect the institution, but that higher education as a whole raise its collective voice and be heard by lawmakers. By his 2

p.m. testimony that day before the House Subcommittee on Basic Research, Spanier — looking a little weary — was well prepared for any questions fired at him by legislators.

"It's critical that we not only continue to be part of the process, but that we increase our presence and direct some of that process," Spanier said after the hearing. "The issues that are being discussed in Washington and in Harrisburg are obviously issues that greatly affect our ability to fulfill our most basic missions."

Spanier testified on the Internet 2

See "Presence" on page 3

Two to receive honorary degrees

A renowned artist and Penn State alumnus and a former University administrator, now head of a national private grantmaking foundation, will be awarded honorary degrees during May commencement ceremonies at Penn State.

John Thomas Biggers, a celebrated muralist who has painted realistic scenes from rural black life and other well-known works over the last five decades, will receive the honorary doctor of fine arts degree as part of the May 17 commencement activities in the College of Arts and Architecture. William C. Richardson, president and chief executive officer of the W.K. Kellogg Foundation and former executive vice president and provost of Penn State, will receive an honorary doctorate of humane letters on May 18 at The Hershey Medical Center.

See "Degrees" on page 2

Ridge to be at Pattee expansion groundbreaking

When the University Libraries breaks ground for construction of the new Paterno Library on Friday, April 25, Gov. Tom Ridge will be there with his hard hat on.

Ridge will leave his shovel at home, however. Instead, he'll join President Graham B. Spanier and Joe Paterno, football coach and co-chair of The Campaign for the Library, atop a bulldozer to move the first load of dirt.

Jesse Arnette, president of the Board of Trustees; Gloriana St. Clair, acting dean of University Libraries; and Sue Paterno, co-chair of The Campaign for the Library with her husband, Joe, also will be present for the 4 p.m. on-site dedication at Pattee Library launching the two-year project

See "Pattee" on page 2

Inside



Research

Researchers at Penn State and the University of Minnesota have worked to design new measures to extend the safe driving time of older Americans. For details, please see page 11.

Celebration

The Hershey Medical Center celebrates the 10th anniversary of its Trauma Services and Life Lion aeromedical programs on Saturday, April 26. For details, please see page 12.

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Degrees

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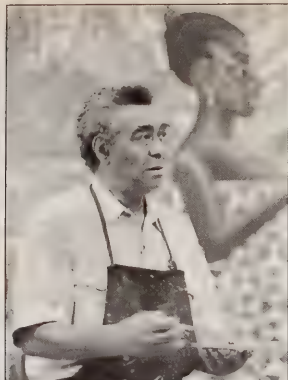
Honorary degrees may be awarded to those who are eminent scholars, performers, artists and practitioners in academic fields, or individuals who have made particularly distinguished contributions to society in areas such as public service, business or government. This year's recipients, only the fourth and fifth to be named by the University, were nominated by a 15-member committee.

Biggers, named a Distinguished Alumnus in 1972 — the highest honor bestowed by the University Board of Trustees — has been called one of America's "most significant African American artists." He earned his bachelor's, master's and doctorate degrees in art education from Penn State in the late '40s and early '50s, before going on to become one of the nation's leading African-American artists.

Biggers followed his early mentor, Viktor Lowenfeld, to Penn State when Lowenfeld became a Penn State professor in 1946. As an undergraduate, Biggers met the muralist Henry Varnum Poor, the artist working on the Land Grant Frescoes in Old Main, and was inspired to paint murals. After his graduation in 1948, Biggers joined the faculty of then Texas State University for Negroes in Houston, now Texas Southern University, and established the college's art department which, since its founding, has won acclaim for training prominent art educators. In 1952-53, Biggers completed a mural for the Blue Triangle YWCA in Houston, "The Contribution of Negro Women in American Life and Education," the preliminary studies for which had been completed in the studio of Jules Heller, the later founding



WILLIAM K. RICHARDSON



JOHN THOMAS BIGGERS

dean of the College of Arts and Architecture at Penn State.

Though Biggers has many historical ties to Penn State, the two murals, "Night of the Poor" and "Day of the Harvest," which hang in Burrows Building on the University Park campus, are perhaps his most familiar works to most Penn Staters. Biggers' other work on campus is "Sharecropper Mural" at the Paul Robeson Cultural Center.

In 1967, Biggers was named a distinguished professor at Texas Southern University. He retired in 1983 to devote most of his time to his art. In 1990, Biggers received the honorary degree, doctor of humane letters, from Hampton University. In 1995, a major retrospective exhibition organized by the Museum of Fine Arts in Houston and Hampton University toured the United States. He has received national recognition as a teacher and has been hon-

ored as a distinguished African American artist. Biggers, the author and collaborator on many books, has lectured at Penn State, the University of Maryland, Howard, Brown, Texas A&M and other universities.

Richardson, former president of The Johns Hopkins University in Baltimore from 1990 to 1995 and a professor of health policy and management there, joined the Kellogg Foundation in 1995. The Kellogg Foundation, located in Battle Creek, Mich., was established in 1930 "to help people help themselves through the practical application of knowledge and resources." As a private grantmaking foundation, it provides seed money to organizations and institutions that have identified problems and have designed constructive action programs aimed at solutions. Over the last six decades, the foundation has provided more than \$2.93 billion in charitable distributions.

From 1984 to 1990, Richardson was executive vice president and provost of Penn State. He also held the position of professor in the Department of Family and Community Medicine in Penn State's College of Medicine at The Hershey Medical Center. From 1981 to 1984, he was dean of the Graduate School and vice provost for research at the University of Washington in Seattle.

Richardson has been active with numerous foundations, private institutions and public and private sectors. He is a member of the Institute of Medicine, of the National Academy of Sciences, and is a fellow of the American Public Health Association. He serves on the boards of directors of the Kellogg Company; CSX Corporation; the Mercantile Bankshares Corporation and the Mercantile-Safe Deposit and Trust Company. In addition, he serves on the external advisory committee of the Fred Hutchinson Cancer Research Center.

Born in Passaic, N.J., Richardson graduated from Trinity College, Hartford, Conn., with a bachelor's degree in history. He went on to earn a master's degree in business administration from the University of Chicago, Center for Health Administration Studies, Graduate School of Business, in 1964, and a doctorate from the University of Chicago, Graduate School of Business in 1971.

Pattee

Continued from page 1

that will greatly increase the size of University Park's main library. The project also includes renovation of existing space.

When completed, the new Pattee and Paterno libraries will include subject libraries with specialized holdings in life sciences, humanities, social sciences, business and education; a new library for special collections and state-of-the-art information retrieval and telecommunications technologies. The existing East Pattee will be renovated to provide office and work spaces, periodical collections, reference areas and workstations.

The ground and first floors of the Paterno Library at Pattee will house special collections and key operations; the second and third floors will support a social

sciences library and a business library. The fourth floor will have an expanded life sciences library and the fifth floor will include an education library and administrative offices.

After completion of the new library, renovation will occur in some sections of West and Central Pattee where the humanities and arts collections will be housed. The existing map room will become a traditional reading room and West Pattee will include the reserve collection and the extended-hours reading room.

The project is being funded by \$11.7 million raised in The Campaign for the Library and \$14.8 million in state money.

For more information and updates on the project, check out the construction Web site at <http://www.libraries.psu.edu/pubinfo/construction/>.

Penn Staters

Two faculty members have been awarded Fulbright grants this summer. They are:

Ronald L. Filippelli, associate dean for administration, planning and personnel in the College of the Liberal Arts, has been granted an administrative Fulbright to Japan. This is a group program designed to give participants familiarity with higher education, society and culture in Japan.

Dennis K. Davis, professor in the College of Communications, has been granted a Fulbright to attend a seminar on German media and communication science. This group seminar examines the political, economic and social institutions of Germany, including the five new states in Eastern Germany, in light of their recent history and current development.

The University Continuing Education Association awarded **Laura Doughty**, coordinator of alumni and community relations at Penn State Great Valley, and **Jill Eidenberg**, publications specialist, a silver award for fier design in the 1997 Division of Marketing and Promotion awards. The two-color fier was designed for the Martin Luther King Jr. Celebration week activities organized by Great Valley's continuing education department.

Arundo Donax, an orchestral composition for clarinet by **Burt Fenner**, professor emeritus of music, is featured on a new compact disc, "Richard Stoltzman: Alchemy" from MMC Recordings, 1997. Richard Stoltzman, considered the "pre-eminent clarinetist of our time," performs Fenner's work with the Warsaw National Philharmonic, with George Manahan conducting.

B. Lakshminarayana, Evan Pugh professor of aerospace engineering and director of the Center for Gas Turbines and Power, was the invited keynote speaker at the VI Latin American Turbomachinery Congress and Exhibition in Mexico City. His address was titled "Recent Developments on Gas Turbines for Power Generation and Advances in Turbomachinery."

Suzanne Mohney, assistant professor of materials science and engineering, has received the 1997 Young Leader Award of The Minerals, Metals & Materials Society (TMS), representing the society's Electronic, Magnetic and Photonic Materials Division. The Young Leader Award honors outstanding young professionals who are active in the materials field and have leadership potential. Mohney was selected as one of 10 young leaders.

Spanier

Continued from page 1

create. It is expected to be 10 times faster than the current Internet and will link universities, colleges and national laboratories, allowing faster transfer of data and providing the ability for researchers to work simultaneously on projects. The hearing was the last in a series being held to examine the National Science Foundation's proposed 1998 budget.

In his talk, Spanier dispelled the fear that Internet 2 was only an effort on the part of the most prestigious institutions to create their own private network. He also reassured representatives that the Internet 2 Project was "entirely compatible and complementary" with President Clinton's Next Generation Internet (NGI) initiative — a three-year, \$300 million effort which calls for the development of Internet 2 and experimentation with the next generation of networking technologies. The NGI goal is to increase the speed of the current Internet 100-fold.

"Our goals are to rapidly deploy our success to the benefit of others in the educational community and beyond — K-12, libraries and institutions... who can't afford to take these first steps," Spanier said. "At Penn State, our work with Internet 2 involves the commitment of a significant amount of time and millions of dollars of our own resources. Investments on the same scale are being made by scores of universities around the country."

Presence

Continued from page 1

Project on behalf of the National Association of State Universities and Land-Grant Colleges (NASULGC) and other higher education associations. He is chair of NASULGC's Commission on Information Technology.

On May 7, Spanier will again travel to Washington to act as "emcee" for a Department of Defense event where approximately 25 universities — including Penn State — will set up demonstrations of Department of Defense basic research being conducted on campuses across the nation. While Spanier introduces various Congressional speakers such as Strom Thurmond and Rick Santorum, Penn State will show off the research it has conducted at both the Rotocraft Center for Excellence and the Institute for High Performance Computing Applications. The basic research being performed at the Rotocraft Center is aimed at lessening the noise produced by aircraft, solving structural vibration problems and improving safety. The Institute for High Performance Computing Applications concentrates its efforts on bringing together faculty and students in the use of parallel computers to solve industry problems.

On that same day, Rodney Erickson, dean of the Graduate School and vice president for research, and Anthony Wagner, director of Legislative Affairs, also will be in Washington visiting members of Congress and providing background information on the



The answer man

President Graham B. Spanier fields questions from members of Congress on the merits of Internet 2.

Photo: Greg Grieco

The academic community has committed \$50 million per year for the next five years to Internet 2. The \$100 million requested by the Clinton administration for NGI, is an important part of the total funding picture for Internet 2, according to Spanier. Spanier estimated that approximately \$30 million of that amount would actually go to universities working on Internet 2.

"We need this initial support from the government. Once we are able to show commercial entities that this is feasible, they will offer their support," Spanier said. "This is a modest request compared to what 100 universities have said they will put in for this project."

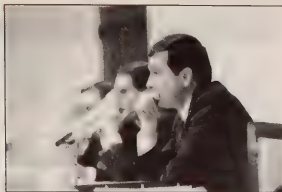
The president also explained that the government funding was a "modest investment" when compared with the pay back in terms of what the pro-

ject can accomplish first for researchers, and later for the general public and industry.

Rep. Mike Doyle from Pennsylvania asked if the "one-time" investment from the government was sufficient or would the project require continued funding. Spanier said the evolution of Internet 2 would probably follow the path of the original Internet with commercial investments coming in even more rapidly at the very beginning. Currently, seven companies — including Ameritech, IBM, MCI and Sun Microsystems — have signed up to provide support for Internet 2.

"We see this as a continuing cycle of government, university and private investment," Spanier responded. Spanier said an announcement of "substantial corporate support" is expected in the near future.

Gil Knecht, a Congressman



Taking mental notes

Rep. Gil Knecht of Minnesota listens intently to Spanier's testimony. Spanier explained to him and other members of Congress how the Internet 2 Project is compatible and complementary with President Clinton's Next Generation Internet initiative.

Photo: Greg Grieco

from Minnesota, asked about the cooperation between agencies and how the project fit with NGI.

"Internet 2 can fit into the larger picture of NGI," Spanier said. "The Internet 2 goal of a 10-fold increase fits in well with the NGI goal to increase the Internet's capacity 100-fold. I see the Internet 2 as a subset of NGI — completely compatible. It will be part of the normal evolution of the Internet, not a stand-alone enterprise."

"As we achieve the goals of each step in the process, it will allow the nation, universities and industry as a whole to move ahead and advance," he said.

After hearing testimony, the subcommittee reports back to the House Science Committee. A vote on the funding issue will not happen until late this summer.



Looking for answers

Rep. Mike Doyle of Allegheny County, a Penn State alum, was one of several legislators to ask Spanier about Internet 2.

Photo: Greg Grieco

projects, Erickson recently testified (April 10) before a subcommittee of the Senate Committee on Armed Services about the need for continued federal funding for research. In his testimony Erickson stressed the importance of Department of Defense funding for basic and applied research and for educating the next generation of scientists and engineers.

"Research is the seed for the entire science and technology development process, and it directly affects the crop of applied technologies that we harvest," he said.

In 1996, Penn State's total research activity amounted to about \$350 million, according to Erickson. Penn State ranked second in the nation in both

Department of Defense-sponsored funding industry-sponsored funding.

"Penn State faculty are conducting more than 200 Department of Defense-supported research projects — a portfolio valued at \$100 million," Erickson told members of Congress.

Erickson made the case that while industry is funding some projects, it has come to rely almost exclusively on the public sector for the long-term basic research underlying the development of both defense systems and commercial products — a strong reason for continued governmental support.

Spanier's testimony on April 9 on the Internet 2 Project (see above story), was coupled with testimony from officials of other universities on various federally funded initiatives overseen by the National Science Foundation, an independent federal agency which promotes and advances scientific progress in the United States. Neal Lane, director of the NSF, and Richard Zane, chairman of the National Science Board, also spoke on the NSF's budget request for fiscal year 1998. The NSF provides approximately 25 percent of basic research funding at universities and more than 50 percent of the federal funding for basic research in certain fields of science.

"There is agreement in the higher education community that we should be playing a lead role in advancing our collective agenda in areas such as intellectual property issues, telecommunications infrastructure, research and information technology," Spanier said. "By doing this we can come to a consensus on the most critical issues facing higher education."

LECTURES

Priestley chemistry lectures to be given April 23 to 25

Alexander Pines, professor of chemistry at the University of California at Berkeley and faculty senior scientist at the Lawrence Berkeley National Laboratory, will present the 1997 Joseph Priestley Lectures from April 23 to 25 at the University Park campus. The three-lecture series, "Magnetic Moments," is sponsored by the Eberly College of Science and by a grant from Exxon Research and Development Laboratories.

The lectures, which are open to the public, include: "NMR/MRI: All Lit Up" at 8 p.m. Wednesday, April 23, in 102 Thomas Building; "Magic and Other Angles" at 4 p.m. Thursday, April 24, in 5-5 Osmond Laboratory; and "Gauge Kinematics of Spins and Cats" at 12:15 p.m. Friday, April 25, in 5-5 Osmond Laboratory.

Pines, whose main research inter-



ALEXANDER PINES

ests include nuclear magnetic resonance (NMR) theory and experiment, has developed techniques that are widely used in chemistry and materials science.

Pines received his doctoral degree in 1968 in chemical physics at the Massachusetts Institute of Technology and then joined the faculty at the University of California at Berkeley in 1972. He is faculty senior scientist at the Lawrence Berkeley National Laboratory and professor of chemistry at the University of California, where he holds the President's Chair in Undergraduate Education.

The Priestley Lectures are named in honor of Joseph Priestley, the 18th century English chemist who discovered oxygen and eventually settled in central Pennsylvania. These lectures were established by the late Professor Wheeler P. Davey in 1926.

Talk to focus on women, biodiversity, biotechnology

The Science, Technology, and Society Program will host play for a visit by physicist and social activist Vandana Shiva to the University Park campus. A public lecture, "Women, Biodiversity and Biotechnology," will be held at 7 p.m. Monday, April 21, in 101 ASI Building.

Shiva was a scientific researcher at the Indian Institute of Management in Bangalore. She is the science and environment adviser of the Third World Network and the Asia Pacific People's Network (APPEN), associate editor of the *Ecologist* and a board member of a number of other national and international bodies. In 1993 she was awarded the Right Livelihood Award, also known as the alternative Nobel Prize. For the past 10 years, Shiva has been a

spokesperson for socially responsible science, particularly in the area of plant resource use and preservation and respect for indigenous agricultural knowledge. She is a critic of agricultural biotechnology and advocate for the preservation of farmers' rights and conservation of biodiversity. Shiva is currently the director for the Research Foundation for Science, Technology and Natural Resource Policy in New Delhi, India, and has authored several books.

Shiva's visit also is being supported by the College of Agricultural Sciences, The Penn State Sigma Xi Chapter, Women Studies Program and the WISE Institute. For more information contact Hector E. Flores, director, STS Program, at (814) 865-3043.

ing and predicting the chemistry of the processing, fabrication, behavior and properties of high temperature gaseous and condensed materials.

For more information, call (800) 778-8632, or visit the Web at: <http://www.cda.psu.edu/C&I/HTMC-IX/>

Green Design Conference set for April 20

The Fourth Penn State Green Design Conference will be held from 9 a.m. to 2 p.m. Sunday, April 20, at The Nittany Lion Inn on the University Park campus. All students, faculty, staff and environmentalists interested in sustainable and unique design concepts for buildings, industry and Penn State are invited to attend.

As part of the five-hour event, there will be speakers, interactive presentations and a poster session on pollution prevention. The keynote address will be given at noon by William Coperthwaite, social designer and president of the Yurt Foundation. He will discuss "Designing with a Conscience."

For more information on the conference, sponsored by The Leonard Center, the Center for Sustainability, CE477 and the Pennsylvania Space Grant Consortium, call Geraldine Russell at (814) 863-7688.

Lecture examines genetic diversity in tomatoes

Charles M. Rick Jr., will present "Chasing the Wild Tomato: Collecting, Maintaining and Utilizing Germplasm" at 12:45 p.m. Monday, April 21, in 101 Agriculture, Sciences and Industry Building on the University Park campus.

Rick examines the depletion of genetic diversity within traditionally cultivated tomatoes and how breeders are increasingly relying on exotic sources—particularly related wild species—for desired traits.

This lecture is sponsored by the research/training programs in plant stress and in root biology, the Science, Technology and Society Program, The Life Sciences Consortium and various departments. For more information, call Janice Kennedy at (814) 865-3155.

Attorneys may earn credit at videoconference

Pennsylvania attorneys who practice family law can earn CLE credits at the "Family Law Update Interactive Videoconference," on Saturday, April 26. The daylong seminar is a joint offering of Penn State and the Dickinson School of Law.

The seminar, which will cover equitable distribution, alimony, support, custody and ethics issues in family litigation, has been approved by the Pennsylvania Continuing Legal Education Board for five hours of substantive law, practice and procedure credit and one hour of ethics credit. The seminar will be presented at the following locations: Penn State Erie, The Behrend College; New Kensington campus; University Park; Penn State Harrisburg; Worthington Scranton campus; and Penn State Great Valley. The use of interactive video technology will enable participants at these different sites to interact with one another and the presenters.

For information about program content, contact Karen Brutz by phone at (717) 240-5272 or by e-mail at kbrutz@dsd.edu. For information about registration, contact Jean McGrath at (814) 863-8306.

Talk examines impediments to economic development

Rural communities must play a role in providing firms with a technically skilled workforce, according to Penn State expert David Passmore.

Passmore, a professor of education and senior scientist in the Center for Trade, Technology and Economic Growth at the University Park campus, will focus on how a technical skills deficit can impede economic development during a free noon presentation April 30 at the Penn State Downtown Center in Harrisburg.

He will explain how a technical skills deficit in a workforce in a rural Pennsylvania community can have a devastating effect on economic development and can impede competition for attracting new business.

For more information on the Penn State Downtown Center lecture, call (717) 783-0433.

Series projects future of health and disease in state

Dr. Toni Miles, director of the Center for Special Populations and Health, will speak as part of the lecture series, Prognosis for the Decade—The Future of Health and Disease in Pennsylvania, on "Projections on the Health Care Needs of Pennsylvania's Minority Population" from 8 to 9 a.m. Tuesday, May 5.

Dr. Julian Biebuyck, associate dean for academic affairs, professor and chair of anesthesia at The Hershey Medical Center, will continue this lecture series, sponsored by The Hershey Medical Center, as he speaks on "Health Care Providers: Will the Demand Equal the Supply?" from 8 to 9 a.m. Monday, June 2.

These lectures are designed to inform members of the state Legislature, state government agencies and those involved in health care policy about projections on health and disease throughout Pennsylvania in the near future.

Both lectures will take place in the Penn State Downtown Center in Harrisburg. To register, call the center at (717) 783-0433.

International conference on chemistry to be May 19-23

The ninth international conference on High Temperature Materials Chemistry (HTMC IX) will be held May 19-23, at the Penn State Conference Center Hotel, at University Park. The conference will include invited lectures and contributed papers on topics related to understand-

More Lectures

Executive to present Shoemaker Lecture

One of Pennsylvania's leading executives, **John T. Ryan III**, will visit University Park on Friday, April 25, to present the sixth annual G. Albert Shoemaker Lecture in Mineral Engineering.

He will speak at 4 p.m. on "Business in the '90s: A Contrarian View" in 22 Deike Building. Refreshments will be served at 3:30 p.m.

Ryan is chairman and chief executive officer of Mine Safety Appliances Co., manufacturer of equipment and systems for worker and plant protection, with products ranging from filtered respirators to detection devices for toxic substances. The company was founded in Pittsburgh by two Penn State alumni in 1914.



JOHN T. RYAN III

Ryan is a member of the Council on Foreign Relations, a director of the Regional Industrial Development Corporation of Southwestern Pennsylvania and a member of the executive committee of the Allegheny Conference on Community Development. He

is a graduate of Notre Dame and holds an M.B.A. from Harvard University.

This lecture series was established in 1992 to honor the memory of G. Albert Shoemaker, a distinguished alumnus of Penn State, former Penn State trustee and president of the Board of Trustees from 1970 to 1972. The series is administered by the Department of Mineral Engineering.

Award recipient to talk on growth through teamwork

Karl P. Kimmerring, vice president of manufacturing-steel at the Timken Co. in Canton, Ohio, will present a lecture in conjunction with receiving the David Ford McFarland Award presented annually to a Penn State graduate who has achieved distinction in the field of metallurgy, from the Penn State Chapter of ASM International.

Kimmerring's technical presentation on "Profitable Growth Through Teamwork and Technology" will begin at 11 a.m. Saturday, April 26, in 112 Walker Building on the University Park campus. He will be honored that same day at a banquet.

As vice president of manufacturing-steel, Kimmerring is responsible for all of Timken's steel manufacturing operations supporting four steel making facilities, 3,000 employees, and annual steel sales of \$1 billion. He received his B.S. degree in metallurgy from Penn State in 1979 and began his career with Timken's Harrison Avenue melt shop. While carrying out his

metallurgical and managerial responsibilities there, he attended Kent State in pursuit of his MBA, which he received in 1982. After receiving his J.D. in corporate law from the University of Akron in 1987, he was promoted from general supervisor of melt shop operations to assistant superintendent of labor relations.

In 1989 he was transferred to Labrobe Steel (a subsidiary of Timken) as superintendent of labor relations and became business manager for tool and die steels, and then general manager of primary operations and engineering.

In 1995 he was promoted to president of Canadian Timken, Ltd., and in 1996 returned to Canton to assume his current position.

The McFarland Award is named in honor of David Ford McFarland who joined the Penn State faculty in 1920 as head of the Department of Metallurgy, a position he held until his retirement in 1945.

Ethics in university research and education workshop set

A workshop on Ethics in University Research and Education will be held from 9 a.m. to 1 p.m. Monday, April 28, at the Nittany Lion Inn on the University Park campus. Up to three representatives from each graduate program, including at least one graduate student, are expected to attend.

The purpose of the workshop is to raise awareness of the importance of responsible conduct in research and education. The workshop will serve as a forum for identifying issues and for developing strategies for advancing ethics in research and education at Penn State.

Rodney Erickson, vice president for research and dean of the Graduate

School, will open the workshop, followed by the keynote address, "Research Integrity: National Issues, Local Challenges," by C. K. Gunsalus, associate provost at the University of Illinois at Urbana-Champaign.

The workshop will conclude with a luncheon, during which the use of case study scenarios will be discussed by **Joan Lakoski** of the College of Medicine at The Hershey Medical Center.

The Workshop on Ethics in University Research and Education is organized by the Graduate Council Committee on Research and the Graduate School. For more information, contact **Mary Hosband**, 114 Kern Building.

Learn about the transition to menopause May 10

A workshop titled "Menopause: Making the Transition" will be presented at the Penn State Conference Center Hotel at University Park on May 10, from 8:45 a.m. to 12:45 p.m.

This one-day workshop is a continuing and distance education service of the College of Health and Human Development and is supported by the Dr. Thomas M. Nardozzo Community Service Endowment.

The following topics will be addressed:

- Keynote presentation: "Perspective on Menopause — Body Image," **Phyllis Kernoff Mansfield**, professor of women's studies and health education, Penn State;
- "Hormone Replacement Therapy — Is It Right for You?" **Dr. Karen Bascom**, Internal Medicine Associates;
- "Mind Over Menopause," **Judy Zarit**, clinical psychologist; and
- "Healthy Transition — Your Body — Nutrition and Fitness," **Kristine Clark**, director of sports nutrition, Penn State.

The \$69 registration fee includes instruction, handouts and a food and beverage break.

Health America (HMO) members note: partial reimbursement is available for this program. To register, call (800) PSU-TODAY.

Business lectures tackle world's stock markets

As the world's stock markets are increasingly intertwined, the opportunities for U.S. investment in foreign corporations are increasing. But, while foreign stocks may sound glamorous, there are a number of risks which need to be understood by an investor in America.

The next installment in the "Current Issues in Business" lecture series, sponsored by the Penn State Harrisburg School of Business Administration, will feature a look at international investing with assistant professor of professional accountancy **Robert Larson**.

Larson, chair of the Professional Accountancy Program at Penn State Harrisburg and a certified public accountant, will offer his advice at a noon presentation May 13 at the Penn State Harrisburg Eastgate Center, 1010 N. Seventh St. in Harrisburg. A question-and-answer period will follow.

For information or a reservation, contact the Penn State Harrisburg Eastgate Center at (717) 772-3590.

Challenges and Achievements conference is April 19

A free conference, "Challenges and Achievements VII" for women faculty, students and staff in the sciences and engineering, will be held at the Nittany Lion Inn from 9 a.m. to 1 p.m. Saturday, April 19. While the conference is geared toward women, men also are welcome.

Patricia Wright, director of the Institute for the Conservation of Tropical Environments of the State University of New York, Stony Brook, will talk about her life in science at her 9 a.m. keynote address.

Challenges and Achievements is a series of annual "how-to" workshops to increase the preparation of women for work or study in non-traditional fields.

All workshops will be held in Keller Building near the Nittany Lion Inn. To register, e-mail the WISE Institute at wise@psu.edu or call (814) 865-3342 for more information.

The ARTS

AT PENN STATE



Practice makes perfect

Bruce Trinkley, associate professor of music, conducts a rehearsal for his opera, *eve's odds*, which will be performed as part of the Penn State Opera Theatre's presentation of "Opera at the Pavilion." The opera will be performed at 8 p.m. Friday, April 18, and Saturday, April 19, in the Pavilion Theatre on the University Park campus. Tickets are \$4.50 and are available through the Arts Ticket Center at Eisenhower Auditorium, by phone at (814) 865-0255 or at the door.

Photo: Greg Grieco

"Damn Yankees"

The Penn State Thespians will present the hit Broadway musical "Damn Yankees" at 8 p.m. on April 18 and at 2 and 8 p.m. on April 19 in Schwab Auditorium on the University Park campus.

Tickets are \$7 for the general public and free to students with ID. Tickets may be purchased at the Eisenhower Auditorium or the Thespians box office, across from the HUB desk. For information, call (814) 865-9461.

Jazz group at Hazleton

The latest in the 1996-97 series of cultural events at the Penn State Hazleton campus will take place on Friday, April 18, with a free performance by the jazz ensemble *The Big Push* at 8:30 p.m. in the Commons Building.

Puppet show

At 1 p.m. Saturday, April 19, Penn State Mont Alto theatre arts students will present three free puppet shows for local children at the Alexander Hamilton Memorial Free Library, Waynesboro. The first show highlights good nutrition and the second, titled "The Ball Game," discusses the difficulties of being accepted. The third is called "Don't Talk to Strangers."

Odyssey Through Literature

On the April 20 episode of *Odyssey Through Literature*, host **Leonard Rubinstein** discusses the 1960s with **Archie Loss**, professor of English at Penn State Erie, The Behrend College.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania.

Pennsylvania Quintet

The Pennsylvania Quintet, Penn State's resident wind chamber music ensemble, will present a free recital at 3 p.m. Saturday, April 19, at the Faith United Church of Christ, 300 E. College Ave. in State College. The program will include works from the quintet's new music project by **Tom Benjamin**, **Steve Cohen** and **William Albright**.

The members of the quintet, all faculty members in the School of Music, are: **Eleanor Duncan Armstrong**, associate professor of music, flute; **Tim Hertz**, assistant professor of music, oboe; **Smith Toulson**, professor of music, clarinet; **Lisa O. Bontrager**, associate professor of music, horn; and **Daryl Durran**, associate professor of music, bassoon.

Essence of Joy

Essence of Joy will present a spring concert, "Total Praise," at 4 p.m. Sunday, April 20, in the School of Music Recital Hall on the University Park campus. The program will include spirituals, traditional and contemporary gospel.

Anthony T. Leach, assistant professor of music, is the conductor.

Tickets are \$4 for non-students, \$2 for students, and may be purchased in advance through the School of Music office at (814) 865-0431 or at the concert. For more information, call Leach at (814) 865-6521.

Lecture and recital

Jason Byrnes, a graduate assistant in tuba/euphonium in the School of Music, will present his master's lecture-recital on **Alec Wilder's** compositions for tuba and horn at 6 p.m. Monday, April 21, in 122 Music Building II on the University Park campus.

The event is free to the public.

Orchestra concert

Two University orchestras, the Penn State Philharmonic Orchestra and the Penn State Chamber Orchestra, will present the final performances of their seasons in concert under the direction of **Pu-Qi Jiang**, associate professor of music, at 8 p.m. Monday, April 21, in Eisenhower Auditorium on the University Park campus. Guest conductor is **Fouad Fakhouri**, a master of music student in conducting.

Tickets are \$4 for non-students, \$2 for students and are available in advance at the Arts Ticket Center, (814) 863-0255, and on the evening of the performance.

Jazz Ensemble

Centre Dimension Jazz Ensemble, under the director of **Dan Yoder**, professor of music, will present a concert of *Big Band Jazz* at 8 p.m. Tuesday, April 22, in the School of Music Recital Hall on the University Park campus.

There will be a \$3 admission at the door.

Elijah on stage

One of opera's greatest superstars is coming to State College April 23. **Sherill Milnes**, for years a leading baritone with New York's Metropolitan Opera, will perform the title role in **Felix Mendelssohn's** oratorio *Elijah* with the State College Choral Society, in the final concert of their 1996-97 season. The performance begins at 8 p.m. at Eisenhower Auditorium on the University Park campus.

Also performing as soloists in *Elijah* will be soprano **Kate McGraw**, mezzo soprano **Jan Wilson** and tenor **Richard Kennedy**, a School of Music faculty member.

Tickets are \$20 and may be purchased in advance at the Eisenhower box office the night of the concert. All tickets are general admission. For more information, call the box office at (814) 863-0255.



BRYCE JORDAN CENTER

Manilow to visit

Adult contemporary artist **Barry Manilow** will appear at 8 p.m. Friday, July 18, at The Bryce Jordan Center on the University Park campus. Tickets are priced at \$39.50 and \$29 for reserved seating and can be purchased at the Bryce Jordan Ticket Center, Eisenhower Auditorium South Box Office, selected Uni-Mart ticket outlets, Commonwealth Campus ticket outlets or by calling (814) 865-5555 or (800) 863-3336.

Fresh on the heels of his highly-acclaimed A&E network special and his 26th Top-40 record, Manilow's all-new concert will feature his greatest hits from the past 20 years and the latest hits from his new album, "Summer Of '78."

Manilow is planning an interactive show, where the audience will choose from a catalog of 29 Manilow albums. Select audience members will use interactive electronic devices to choose individual songs.

Upcoming events

■ **April 19:** World Wrestling Federation, 8 p.m.

Tickets: \$18, \$15, \$11 for reserved seating, on sale now.

■ **April 28:** Steven Curtis Chapman, with audio adrenaline and Carolyn Arends, 7:30 p.m. Tickets: \$20, \$24.50, on sale now. Group discounts are available.

■ **May 3, 4:** The Royal Hanford Circus, 2 and 7 p.m. both days.

Tickets: \$13 and \$11 for adults; \$11 and \$9 for children 12 and under, on sale now. Group rates are available.

■ **May 6:** No Doubt, with CIV and The Vandals, 7:30 p.m.

Tickets: \$21.50 for reserved seating and general floor admission, on sale now.

■ **May 16, 17:** Commencement

Times: Friday, 3 and 8 p.m.; Saturday, 9 a.m., noon, 3 and 6:30 p.m. For more information call (814) 863-8500 or (814) 863-6357.

■ **June 12-14:** Preview '98 regional track show

Times: Thursday, 5-8 p.m.; Friday, 10 a.m. to 7 p.m.; Saturday, 10 a.m. to 7 p.m.

For booth information call (814) 863-1570

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>.

Faculty/Staff Survey

A follow-up

No matter where their academic interests lie, the faculty, staff, and students of our University community learn through the methods of careful observation, critical analysis, and collegial discussion. We can learn about ourselves and our workplace environment in much the same way. Like our academic endeavors, this knowledge is critical to the future. The Faculty/Staff Survey provides important input and encouragement for this process of learning and improvement at Penn State.

The pages that follow contain selected examples of how work units throughout the University have used the survey data as a starting point for constructive change. These best practices do not represent a comprehensive list but are responsive to some of the most common concerns expressed by staff and faculty in virtually all areas of Penn State. Many of these initiatives might be easily adapted to other work units, and I encourage you to consider their application.

There are other future improvements outlined in many unit strategic plans, and as these initiatives get underway, we will see the impact of this institutional learning process continue to grow. Our goal is to make Penn State a better place for faculty, staff, and students to work by humanizing the University. It is by putting people first that Penn State's tremendous potential will be best fulfilled.

I am grateful to everyone who has contributed to this important effort and I deeply appreciate the progress we are making with your help in humanizing Penn State.

Graham B. Spanier
President

Throughout the University, both academic and support units are addressing the findings of the Faculty/Staff Survey. The efforts outlined in this and two earlier Intercom inserts represent a sampling of the creative initiatives that have been developed to improve communication, respect, and professional development at Penn State.

Over time, follow-up surveys will provide feedback so units can evaluate the effectiveness of their programs and incorporate those that have proven successful into their daily activities.

Penn State's goal is to provide an environment that will nurture a highly motivated, professional workforce with continuously updated knowledge and skills that will help the University meet the challenges of the new century.

Dr. Billie S. Willits, Assistant Vice President for Human Resources

"Let's Talk" meetings held for Housing and Food Services Units

Because a need for better communication and increased respect were areas highlighted by Housing and Food Service staff who completed the Faculty/Staff Survey, the division has developed a multi-faceted response to its workers' concerns.

"To obtain more detailed information, we held thirty 'Let's Talk' meetings for all employees in all work units," explains Carolyn Fisher, director of human resources. "Participants were free to discuss issues as a group, with two or more 'buddies', or one-on-one."

Supervisors and managers were briefed after each meeting, and, whenever possible, employees' needs were quickly met. Some problems were job-specific. Housing staff who take out trash, for example, asked for raingear to keep them dry in bad weather, and rain ponchos were ordered and distributed.

Some concerns were more general. When wage-payroll employees, in particular, reported that they often felt a lack of respect for their efforts, training sessions were arranged for supervisors to reemphasize the value of the contributions made by students and part-time employees.

Another response to the Survey's findings was the installation of suggestion boxes in each Housing and Food Services work unit. Suggestions and questions are being examined monthly, and answers are posted on employee bulletin boards.

Consistent with the emphasis being put on making certain that employees feel their work is valued, Human Resources has developed a poster program that recognizes "Positively Outstanding Employees." Featured individuals may have provided a special service to customers, or helped with worker recruitment. Pollock Dining Commons' Deb Hall saw her name on a poster when she celebrated sixteen years of perfect attendance on the job.

As part of its Goal Statement, Housing and Food Services is pledged to develop its human resources by "providing optimum personal satisfaction and professional growth." That

means offering on-going training opportunities to all employees, according to Carolyn Fisher.

New management hires began with a four-day orientation program, and then take part in the annual spring training sessions required for all managers. Technical service employees take two days each fall to brush up their skills.

Everyone is invited to an annual program featuring a well known author or motivational speaker. Last year, for example, participants heard Claire Raines, author of *Twenty Something*, and Karen Tracey, senior management development specialist from Wendy's International.

"It was a really upbeat presentation," recalls Debby Watson, an assistant manager in Johnston Commons, East Halls. "You could feel the energy in the room."

One of the recent highlights of food service training was a two-week presentation conducted by executive master chefs from the Culinary Institute of America for more than 50

Modeling new raingear for Housing and Food Services are: Top Row, left to right, Mary Ann Miller, Shelley Houser, Sherri Lamenti, Dolores Durbin, Linda Lutz, Ken Kelligher and Sandy Livingston. Bottom Row, left to right, Linda Jordan, Tina Woomer, Linda Meyers, and Sally Hilgar

cooks from both University Park and the CES campuses. An enthusiastic participant, Cathy Dobson, dining commons food preparer, describes the program:

"They talked to us about everything—ordering supplies, garnishing presentations, handling knives, cleaning up tables. It made me stop and realize how many people are involved in getting the food we cook to the table. We have to work together as a team because if one person is not productive, the entire operation suffers."

"Diversity is important to teamwork. Teamwork brings people who are different together, and the outcome is richer, of higher quality, and more creative, because each team member brings different perspectives to the table."

Steve Hayes, Senior Employment Specialist and Recruiting Coordinator



Calling themselves, "Morale Movers", the team that produced the College of Communications CQI report included: Top Row, left to right, Amy Hensal, Beth Haupt, and Leslie Hutchins. Bottom Row, left to right, Corinna Bressler, Simon Tarr, Sharon Symanovich, Angie Bolton, and Monica Spence.

Communications College "Morale Movers" address staff concerns

Calling themselves "Morale Movers," ten staff members in the College of Communications met as a CQI team over a two-and-a-half month period to address issues raised by the Faculty/Staff Survey.

Dean Terri Brooks began the process last summer by hosting a series of small luncheon meetings where each staff member in the College was able to voice his or her concerns about the work environment and to suggest how situations might be improved.

"Discussions at these luncheons produced several hundred comments," says Sharon Symanovich, human resources representative for the College and team leader. "I grouped them together under six major headings, and then staff were invited to choose which of the categories should be dealt with first."

"Improving Morale" was the category selected, and a team of ten volunteers began analyzing the comments and considering recommendations for solutions.

Team members were Angie Bolton, Corinna Bressler, Beth Haupt, Amy Hensal, Leslie Hutchins, Lisa Richtschel, Joseph Selden, Monica Spence, Sharon Symanovich, and Simon Tarr. The Morale Movers considered six issues: job responsibilities, teamwork, workplace environment, communications, facilities/equipment, and faculty-staff relationships. Members not only came up with recommendations for action, but facilities whenever possible, they undertook prompt corrective measures.

One such action has resulted in a comprehensive listing of "Staff to Call" in the College of Communications. "Already in print, it is designed to guide both faculty and staff to individuals who can help them in the performance of their work. Listed alphabetically by job description are everyone from the Course Room Scheduler and the Safety Officer to the World Wide Web Administrator and the holder of the College's master key."

In another action, the Morale Movers are preparing a handbook for newcomers, which will include the "Staff to Call" listing, and is a direct response to concerns about a lack of orientation procedures for new College staff. The team has also proposed the establishment of a "buddy system" to help introduce new staff to office procedures.

A third issue flagged for action by the Morale Movers relates to the distribution of furniture to staff when a rearrangement of offices takes place. If there happen to be any leftover desks, file cabinets, or chairs, and there is more than one claimant for a piece, who should get it?

Under the policy recommended by the team, anyone needing a particular piece of furniture can register in a central log, and requests will be honored on a first-come, first-served basis with no regard given to staff or faculty status. Deans, however, would still retain the right to override furniture distribution decisions.

Commenting on the Morale Movers' report, Dean Brooks says:

"The CQI staff team gave the College a blueprint of not only areas we can improve, but also useful steps for improving them — from sweeping faculty-staff relationships to the daily basics that affect our quality of life."

"I'm very proud of the quality and thoroughness of their CQI report."

"I believe Penn State is only in the beginning stages of learning how to capitalize on diversity in teams. But as we stretch and grow, our efforts to increase diversity will help make us a better and stronger institution."

Staff assistants from Berks, Allentown share information as merger date nears

"The Faculty/Staff Survey results actually mirrored those from an earlier internal human resources survey we conducted at Berks," says James P. Sterganos, director of business and community services at the Campus.

"One major finding was a request for more human contact and less reliance on communication by data and statistics," Mr. Sterganos points out.

Other concerns included developing programs to make new employees welcome on the campus, finding ways to update and distribute information about benefits, and ensuring that adequate information on job responsibilities was made available.

Faculty and staff expressed a keen interest in professional development, with staff asking for appropriate training in computer software. Faculty has wanted more pertinent information on how positions were filled and factors influencing the length of time required to fill them.

"Our response," Mr. Sterganos continues, "was to set up a human resources committee with representatives from all campus groups. Their responsibility was to review the results of both surveys and come back with specific recommendations that they had prioritized."

"This committee met weekly for three months, and as a result of their recommendations, we plan to appoint a part-time human resources representative to the campus who will come from developing programs for new and existing employees to preparing regular updates about any changes in benefits."

"As Berks and Allentown approach the July 1 date when they will merge to form the Berks Lehigh Valley

College, clarification of job responsibilities will also be important to both units."

Staff assistants from both campuses are already working to share information about their "best practices," according to Tina Gosh, staff assistant in finance at Berks.

Mrs. Gosh served for two years as co-chair, with Carol Myers, of a group of Berks staff assistants who meet every other month. Current chairs are Marilyn Wojcick and Sandy Schmale.

"We discuss any issue that concerns our members," Mrs. Gosh reports, "and of course right now we are focusing on the merger. Our Campus CEO, Dr. Frederick H. Gudge, meets with us at least once a year to inform us about future plans for Berks, and he provided us with information about the merger."

"We also sponsor twice-yearly professional development workshops for staff assistants, basing the contents on input from our members. We've discussed such issues as customer service, while at another session a campus police officer spoke to us about safety in the office and how to react in various kinds of emergencies."

"Groups such as the staff assistants make a significant contribution to the creation of a more open and responsive campus climate," Mr. Sterganos adds. "Both survey instruments reflect a desire for just such an atmosphere, and our administration is pledged to address the human resources concerns they have brought forward."

Merged units create opportunities for training, information sharing

When Graduate School administrators found that a sizable proportion of their staff had reported in the Survey that the University was not as good a place to work as it had been three years ago, they took it as a call to action.

Rodney Erickson, dean of the Graduate School and vice president for research, points out that this result can be explained, in part, by the necessity, given the University's financial constraints, of staff and budgetary reductions in the Graduate School. These have been accompanied, in turn, by workload increases and new staff responsibilities.

"Our staff also expressed concern," he says, "about receiving the training they needed to become more productive and to face the challenges of new electronic technologies that are an integral component of changes in Graduate School procedures and systems."

To deal with these staff development issues, the Graduate School has incorporated a commitment to improved communication, enhanced training opportunities, and a focus on teamwork into its strategic planning.

The Office of Human Resources has assisted the planning and presentation of a day-long retreat during which administrative staff considered such topics as managing change, working more productively, and communication, followed by a general staff workshop on managing change.

Group training for staff in the use of upgraded software was provided by the Center for Academic Computing, and individual staff members have been sent to advanced systems analysis and software training sessions.

"The Graduate School will continue to provide increased access to training," Dean Erickson emphasizes.

Communication with staff has been enhanced through the increasing use of team approaches to work assignments, process analysis, and policy implementations.

Open general staff meetings have been added to the regular staff meetings that include all office directors and senior staff, and staff are now more involved in decisions concerning policies and procedures at all levels.

"Our Graduate Enrollment Services staff now holds monthly meetings, and that's been a big help to morale," Jodi Slover, an administrative assistant, says.

"Our unit was created by the merger of Graduate Admissions, Graduate Programs, Data Processing, and the Thesis Office. Someone who had worked in Admissions wouldn't be familiar with procedures in the Programs office, and a lot of cross-training has been necessary. We get together to share that information."

Having regular meetings gives everyone a chance for input into decisions.

Because Dean Erickson believes that effective communication will be essential to the successful implementation of the strategic directions proposed for the Graduate School, he, along with unit leaders, will hold informal discussion groups with staff.

"The Faculty/Staff Survey helped to focus attention on the need to empower staff to participate more in the decision-making process," Dean Erickson points out. "It called our attention to the need not only to make investments in technology but also to provide training so we can make the best use of available resources. And, finally, it has brought us to a position where we now value every high quality benefit of teamwork and continuous quality improvement."

Special Senate Committee studies teaching development, evaluation

Eighty percent of Penn State's faculty indicated in their Survey responses that they believed "excellence in teaching and instruction" should be rewarded more.

Their concerns were given voice on the floor of the University Faculty Senate when that body discussed the issue as part of a spring faculty survey that was based on a report of the Special Senate Committee on Faculty Teaching Development and Evaluation.

Three committees have been considering the effectiveness of teaching at Penn State, according to Terry Engelder, professor of geosciences, and chair of the Special Senate Committee.

The other two bodies are a subcommittee of the Administrative Council on Undergraduate Education and the Committee of Department Heads.

"Our particular charge from the Senate," Dr. Engelder explains, "was to 'recommend a comprehensive approach to the promotion of excellent teaching and its evaluation at Penn State.'"

"We viewed this as a three-stage process. First, we used previously established models for effective learning as a guide for seeking ways to help teachers develop to their fullest potential. Second, we developed procedures to measure whether Penn State teachers are reaching that potential. The third step was to recommend ways to reward individuals who have succeeded."

The topics of teacher development, teaching evaluation, and rewards structure were assigned to three subcommittees. The subcommittee on teacher development, according to Dr. Engelder, considered how to encourage and support unit and department level activities, such as establishing mentoring programs, incorporating technology into the classroom, establishing guidelines for teacher improvement, and using portfolios to clarify objectives and stimulate self-analysis.

Faculty would respond favorably to a climate offering regular, structured opportunities to talk with one another about teaching, Dr. Engelder believes.

"We hope our report will help create a culture change at Penn State," he says, "where teaching is viewed as a scholarly activity on a par with research and is commensurably rewarded."

Staff input essential in C&DE planning

For Continuing and Distance Education, issues of communication, respect, and teamwork cut across the entire organization.

"We're concerned not only with the relationships between administrators and their staff but also with relations among peers at each of these levels," says Dr. Frederick D. Loomis, C&DE's director of administration. "That's because we regularly interact with so many other segments of the University. One day's workload may involve us in contact with everyone from college administrators and professors to Housing and Food Services staff."

With the results of the Survey in hand, C&DE unit heads met in a half-day retreat to analyze the data. Their goal was to identify key issues for organization-wide action and enhancement and to develop guidelines for further use of the Survey within their units.

"We wanted to examine the congruence between our espoused values as an organization and the issues raised by the Survey," Dr. Loomis explains. "After articulating strategies to close the gaps that appeared, we integrated these proposals for action into C&DE's strategic planning process."

"Our leadership felt that the Survey was especially valuable to the assessment process because everyone in C&DE had the opportunity to respond to the questions. We have always believed in encouraging as much staff participation as possible."

Last fall, each C&DE unit held a half-day workshop that incorporated discussions of the Survey data, along with other specific organizational issues. The latter were developed from an internal survey C&DE had conducted to pinpoint organizational strengths and weaknesses, opportunities for future development, and also possible future stumbling blocks.

Workshop discussions focused on specific issues for each unit.

"We have a variety of distinct working environments," Dr. Loomis points out. "Issues of importance to staff in Education in Mitchell Building may be quite different from the concerns of Conferences and Institutes personnel based at the Conference Center."

After review by C&DE's Vice President and Dean, Dr. James H. Ryan, measurable action plans were incorporated into each unit's strategic plan. Throughout the planning process, staff were kept fully informed and asked to provide feedback.

"As Penn State faces increasing financial challenges at the same time that our customers' expectations are increasing, it is essential that we focus on developing our human resources. The area of Finance and Business is committed to building this concept into our strategic planning."

Gary C. Schultz, Senior Vice President Finance and Business and Treasurer

Eberly College to create staff innovation award



Listening to Biology Department head William Jeffrey talk about his research are: Back Row, left to right, Diane Lyons, Debra Puri, Paula Farwell, and Debbie Snyder. Front Row, left to right, Heather Welke, Jodi Ripka, Bronnie McLaughlin, Heidi Port, and Traci Futory.

Following up on some of the ideas that were presented, the dean's office instituted a monthly meeting for all its supervisors to discuss good supervisory practices. A "social committee" was appointed to plan periodic gatherings, and communications have been enhanced with a periodic on-line newsletter.

The distribution of an updated organization chart with backup materials provides staff with a better understanding of the functions of each of the office's principal components.

The College has had a Staff Advisory Committee in place since 1991, and in addition to presenting annual awards based on service to the College, the eight-member group is currently preparing criteria for a Staff Innovation Award, the first one to be presented at the end of Spring Semester.

Staff input was sought during the recent search for a new head of the Department of Biology. The ten-member staff assistants met as a group and spent a half hour with each candidate who was interviewed.

"Our staff meets at least once a month to keep each other informed of what we're doing," says Debra A. Patt, a staff assistant.

"Our new department head, William Jeffrey, joined us at a recent meeting and gave a very interesting presentation, using terms that we could all understand, about the research his lab is doing.

"We really felt that was extremely useful to us, and we are hoping to ask other faculty members to attend our meetings and describe their research."

When dean's office staff in the Eberly College of Science held a half-day retreat to discuss findings from the Faculty/Staff Survey, three themes predominated—how to improve internal communication, how to bolster teamwork and cohesiveness, and how to improve staff supervision while ensuring equitable and respectful treatment of all staff members.

"The retreat had an overall positive and open atmosphere, and it resulted in a number of useful suggestions," Dean Gregory L. Geoffrey reports.

"The retreat had an overall positive and open atmosphere, and it resulted in a number of useful suggestions," Dean Gregory L. Geoffrey reports.

Education standing committee will keep focus on issues raised by Survey in play

How can a college sustain a positive and supportive environment for its faculty and staff?

The creation of a standing Climate Committee has been one response from a number of colleges and administrative units. Among these in the College of Education, and an important assignment for its Climate Committee is to continue discussions of the issues raised by the Faculty/Staff Survey.

The Survey's findings were thoroughly debated at a Fall Semester College retreat attended by administrators, faculty, staff, and student representatives. Of most concern were three attitude items:

- Departmental and intra-departmental communication and collaboration
- Level of input and feedback from supervisory personnel to their staffs, and
- Lack of technological resources to work more efficiently

Department heads were asked to discuss these working-degree issues, as well as those directly affecting their own operations with their faculty and staff.

In addition, four volunteer focus groups were formed for further discussion of the Survey's results. Each group represented a particular college constituency, including staff supervisors, non-supervisory staff, and two groups composed of faculty members and department heads. Confidentiality for each group was ensured by the use of a professional facilitator from the Office of Human Resources.

Focus group suggestions for implementing change were presented to College Dean Rodney Reed and will be followed-up by the Climate Committee, which has also been charged to develop or adopt a survey instrument that can be used for periodic assessment of the College climate.

"Within the College of Education," Dean Reed says, "we seek to create a supportive and nurturing environment in which faculty, staff, and students are respected and valued, in which a sense of belonging and responsibility is realized, and in which excellence in performance is sustained."

"Ensuring that the climate within the College accomplishes these aims is one of our highest priorities."

To make certain that internal and external communications systems are effective, Toni Duchi, assistant to the dean for public relations, completed a communications audit and conducted a readership survey for existing College publications.

"We have a monthly internal publication called *Ecol Points*," she explains, "and it goes to everyone in the College. When I asked the readership to answer a questionnaire I'd included in the publication, there were almost fifty replies."

"*Ecol Points* had originally been circulated in printed form, but last fall we decided to put it on the Web only. What our readers told us was that they just forgot to look for it there and that they wanted the printed version back. They also wanted us to include more human interest stories. We intend to follow through on both those suggestions."

Communication, professional development enhanced by Penn State-Behrend

Five goals have been selected for special attention by the leadership at Penn State Erie, The Behrend College, in response to the concerns of Survey respondents at this campus. Issues to be highlighted include:

- Departments need the tools and equipment to do high quality work.
- Faculty and staff require an appropriate level of professional development to do high quality work.
- Faculty and staff need to have an understanding of who their clients are and how to provide better customer service.
- Communication needs to be good between faculty and staff and the administration.
- Interdepartmental cooperation is necessary for College-wide consensus building.

"The College's response has incorporated a combination of activities," according to John M. Lilley, provost and dean. "We've had several retreats and held a College-wide meeting, put in place a professional development plan, and begun several initiatives targeting enhancement of communications."

"As a result of an academic unit head retreat we held last fall, units were asked to outline the resources they felt would be necessary to deliver current and future academic programs. We are also establishing additional technology classrooms and providing faculty training in the use of technology."

A professional development plan for Penn State-Behrend staff has been set in motion with the goals of improving customer service and its delivery, bolstering supervisors' management and leadership skills, and providing an appropriate level of professional development opportunities for staff.

In the area of communications, the College has initiated biannual staff meetings and created a College-wide Listserv to enable simultaneous communications to all faculty and staff.

Mary Anne Geary, an administrative assistant in the Plastics Technology Deployment Center, agrees about the need for timely information.

"I'm grateful to the Provost and his staff for including the minutes of the Provost's Advisory Council meetings in the College's newsletter," she says. "This summation of information is very helpful in keeping our department up-to-date with what's happening on campus."

Many of the goals and actions that were identified as the result of the Survey have been incorporated into Behrend's current five-year strategic plan, according to Dr. Lilley. In addition, a Provost's Advisory Council meeting will be held in May, and the Office of Human Resources is planning a three-hour meeting/time management professional development workshop as part of the full-day program.

Information a vital resource for Finance and Business

Staff, money, and material—historically, these have been the resource requirements of any enterprise.

"But now we have to add a fourth—information—because we are in the information age, and Penn State has dedicated a large portion of its resources to information technology," says Gary C. Schultz, senior vice president for Finance and Business and Treasurer.

"Finance and Business is a large organization," Mr. Schultz continues. "Among our units are Auxiliary Services, Business Services, the Corporate Controller's Office, Financial Management, Budget and Resource Analysis, Human Resources, Physical Plant, and Safety and Environmental Services."

"Analysis of the Faculty/Staff Survey's results revealed that we had very little information dissemination across our various units, although each unit had generated a form of official communication for itself."

To address this issue, Finance and Business asked each unit manager to designate a member for a team that would develop an information dissemination action plan. With David E. Stomer, assistant vice president for safety and environmental services, serving as strategy manager, the team prepared action plans that have been incorporated into the division's five-year strategic planning.

Members of the team were Joan Coble, administrative assistant to the senior vice president for Finance and Business; Liz Gibson-Reed, customer service coordinator, Business Services; Timanite Illar, publications specialist, Auxiliary Services; Ken Korbick, classification specialist, Human Resources; Al Matyaszovsk, recycling former, Physical Plant; Deb McCafferty, publications manager, Auxiliary Services; Paul Ruskin, customer services, Physical Plant; and Roseann Seminski, assistant controller/bursar.

"The team made a number of concrete proposals," Mr. Stomer reports. "One of the first steps is considered was the appointment of a Finance and Business Communication Coordinator. After gathering information from each unit, this individual would have to decide on the best way to communicate it—whether through Intercom, E-mail, bulletin boards, flyers, or some other medium. The coordinator would also create a directory for each unit, with the names of those responsible for different operations, along with a description of the unit's functions."

Still another suggestion from the team was the establishment of a cross-unit touring program, so units could get to know each other's responsibilities.

"To keep tabs on the progress made in improving communications across units, input would be sought not only from managers and supervisors but also from an employee-wide pool," Mr. Schultz emphasizes, adding:

"One of the major strategies we will implement is the encouragement of new communication practices on the part of managers. The Survey showed us that we need to do a better job of providing timely and accurate top-down information to our employees."

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, April 18

Kern Graduate Commons, noon, Kern Lobby. Concert titled "Hot Mamas."

Center for the Performing Arts, Eisenhower Auditorium, 8 p.m., "To Kill a Mockingbird." For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student recital, Meredith Malone, vocal jazz.

School of Music, 8 p.m., Pavilion Theatre. Opera, *ev'e's odds* with Susan Boardman, director, through April 19. For tickets, phone (814) 865-0431.

School of Music, 8 p.m., 122 Music II. Graduate lecture/recital, Roland Freilag, violin. For tickets, phone (814) 865-0431.

Saturday, April 19

Palmer Museum of Art, 11 a.m., Christoffers Lobby. Storyteller Jan Kinney, tales for the family.

School of Music, 7 p.m., Recital Hall. Student recital, Julie Lybarger, horn.

Center for the Performing Arts, 8 p.m., Eisenhower Auditorium. "Syracuse Symphony Orchestra." For tickets, phone (814) 865-0255.

Sunday, April 20

School of Music, 2 p.m., Recital Hall. Women's Choral with Robert Drafil, director.

School of Music, 4 p.m., Recital Hall. "Essence of Jew with Anthony Leach, director. For tickets, phone (814) 865-0431.

School of Music, 8 p.m., Recital Hall. "New Music Ensemble." For tickets, phone (814) 865-0431.

Monday, April 21

School of Music, 8 p.m., Eisenhower Auditorium. "Philharmonic Orchestra" with Pu-Qi Jiang, conductor.

Tuesday, April 22

School of Music, 8 p.m., Recital Hall. "Centre Dimensions" with Dan Yoder, director. For tickets, phone (814) 865-0431.

Wednesday, April 23

Center for Women Studies, noon to 1 p.m., Resource Room, 120 Boucke. Film/discussion titled "The Penn State Clothesline Project."

School of Music, 8 p.m., Recital Hall. Student recital, Carrie Swatsworth, flute.

Thursday, April 24

Palmer Museum of Art, 7:30 p.m., Palmer Lipson Auditorium. Peter Welsh on "Museums and the Culture of Commodities."

School of Music, 8 p.m., Eisenhower Auditorium. Symphonic Band with Dennis Glocke, conductor. For tickets, phone (814) 865-0255.

School of Music, 8 p.m., 122 Music II. Graduate lecture/recital, Brian Watson, saxophone.

Friday, April 25

■ Kern Graduate Commons, noon, Kern Lobby. Concert, "Galla & Dan."

Ice Pavilion, 7:30 p.m., Greenberg Sports Complex. "ICE RHYTHMS," directed by Deana Yeager, through April 26.

University Student Theatre Company, 8 p.m., The Playhouse. "Daisy Pulls It Off" directed by Helen Marfall. Also April 26, 29, 30 and May 1-3. For tickets, phone (814) 863-0255.

School of Music, 8 p.m., Recital Hall. Student Choir/Chamber Singers with Doug Miller, director.

Saturday, April 26

Palmer Museum of Art, 2 p.m., Gallery talk, Robin Seymour on "The Sieglitz Circle."

School of Music, 8 p.m., Recital Hall. "Glee Club Blue and White Concert," Bruce



On stage

The Singing Lions will present "A Celebration" at 2 p.m. Sunday, April 27, in Eisenhower Auditorium on the University Park campus. Tickets are \$4 for general admission, \$3 for students, and are available at the door or by calling (814) 865-0255.

Trinkley, director. For tickets, phone (814) 865-0431.

School of Music, 8 p.m., 122 Music II. Student recital, Lisa Cerami, piano.

Sunday, April 27

School of Music, 2 p.m., Eisenhower Auditorium. "Singing Lions." Peter Kibler, director. For tickets phone (814) 865-0431.

School of Music, 2 p.m., Recital Hall. "Oriana Singers," Lynn Drafil, director.

School of Music, 4 p.m., Recital Hall. "University Choir," Anthony Leach, director.

School of Music, 8 p.m., Recital Hall. Student recital, Kyle Glaser and Sue Kearney on the saxophone.

School of Music, 8 p.m., 122 Music II. Graduate lecture/recital, Jeanne Nagurny, voice.

SEMINARS

Friday, April 18

■ Edward Joseph Perkins on "Positioning Universities for their International Role: A Career Diplomat's Perspective," 10 a.m., International Lounge, 222 Boucke.

David Vaughan on "The Design and Synthesis of Microporous Solids," 11 a.m., 250 Materials Research Laboratory.

■ Edward Joseph Perkins on "American Diplomacy and Politics in Sub-Saharan Africa," noon, conference room, Paul Robeson Cultural Center.

Alan Sokal on "What the Social Text Affair Does and Does Not Prove," 3 p.m., 117 Osmond Laboratory.

Monday, April 21

■ Kevin Frick on "HMOs and Medical Care Technology: Global Responsibility for Assuring Cost-Effectiveness and Local Coverage Decisions," 9:30 to 11 a.m., Living Center, Henderson Building.

Nathan Anderson on "Blending Ground Beef Using NIR Spectroscopy" and Ali Bulent Koc on "Evaluation of an Automated Irrigation System for Frost Protection of Apple Budds," 12:20 p.m., 239 Agricultural Engineering.

Charles M. Rick Jr. on "Chasing the Wild

Tomato: Collecting, Maintaining and Utilizing Germplasm," 12:45 p.m., 101 Agricultural, Sciences and Industry Building.

Jeff Nucciarone and Yusuf Ozyonuk on "High Performance Fortran: Status and Future," 3:35 to 4:25 p.m., 215 Hammond.

Vandana Shiva on "Women, Biodiversity and Biotechnology," 7 p.m., 101 ASI.

Tuesday, April 22

L. Ivanits on "Social Teachings of Pope John Paul II," Penn State Catholic Faculty and Staff Fellowship, noon to 1 p.m., 212 Eisenhower Chapel.

■ Mike Arthur on "Cool Tropics, Warm Poles: Late Maestrichian Paleoclimate from an Ocean Perspective," 4 p.m., 112 Walker.

Eileen Kennedy on "Evaluation of the Nutrition Safety Net: Implications of Pending Federal Legislation," 4 p.m., S-209 Henderson

Wednesday, April 23

■ A roundtable discussion on "Nationalism in Post-Communist Societies (Bulgaria, Kazakhstan, Poland, Russia, Ukraine and Romania)," noon to 1:30 p.m., 102 Weaver.

Richard Browne on "Issues in the Evolution of Managed Health Care and Long-Term Care," 12:15 to 1:15 p.m., Living Center, 110 Henderson.

John Meurig Thomas on "Davy and Faraday: A Tale of Contrasting Geniuses," 1:30 p.m., 112 Kern.

Barbara Shaw on "Electron Beam Physical Vapor Deposition Facilities," 3:35 p.m., 215 Hammond.

Alexander Pines on "NMRRMI: All Lit Up," 8 p.m., 102 Thomas.

Thursday, April 24

John Meurig Thomas on "Designed Solid Catalysts," 1:30 p.m., 112 Kern.

Marc Kastner on "The Single Electron Transistor and Other Artificial Atoms," 3:30 p.m., 101 Osmond Laboratory.

Alexander Pines on "Magic and Other Angles," 4 p.m., S-5 Osmond Laboratory.

A. Catharine Ross on "Vitamin A and Immunity: Implications for the Young and the

Old," 4 p.m., 209 Henderson Building South.

Friday, April 25

Alexander Pines on "Gauge Kinematics of Spins and Gains," 12:15 p.m., S-5 Osmond Laboratory.

Megan Henry on "Impact Theory for Rydberg Atom Transition Lineshapes," 2:30 p.m., S-5 Osmond Laboratory.

Ila Dichev on "Is the Risk of Bankruptcy a Systemic Risk?" 3:30 to 5 p.m., 333 Beam Business Administration.

Saturday, April 26

Karl Kimmerling on "Profitable Growth Through Teamwork and Technology," 11 a.m., 112 Walker.

John T. Ryan III on "Business in the '90s: A Contrarian View," 4 p.m., 22 Deike.

CONFERENCES

Friday, April 18

"The Community as Classroom: Local Knowledge, Natural Resources and Ecology," 2 p.m., Pasco Agricultural Museum.

Through April 19.

Dental Seminar, The Penn State Scanlon, Logistics Transportation Symposium, The Penn State Scanlon.

Sunday, April 20

The Fourth Penn State Green Design Conference, 9 a.m. to 2 p.m., The Nittany Lion Inn.

Monday, April 21

"Erasing the Shadows: Helping the Depressed and Anxious Child" and "Identifying and Managing ADD/ADHD (and Its Close Relatives) and Improving a Child's Self-Esteem," Penn State Scanlon, through April 22.

Wednesday, April 23

Educational Secretaries Conference, The Penn State Scanlon, through April 25.

Friday, April 25

"Creating Positive Outcomes for Elderly," The Penn State Scanlon.

EXHIBITS

HUB Art Print Exhibits

Oil and ink paintings by Amy Jane Whitney and Darren R. Grier, through May 4.

HUB Browsing Gallery

■ "Photographs of Australia" by Richard Woldendorp, through April 27.

HUB Formal Gallery

Mixed media works by Howard Brooks, through May 4.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Sketches titled "Shalom," through May 22.

North Halls

Paintings by Judy Ruffner, through April 30.

Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 8.

"Exotic Illusions: Art, Romance and the Marketplace," through June 15.

Zoiler Gallery

School of Visual Arts, "Mafia Thesis Exhibitions," ceramics by Danielle Mortier and Rebecca Westroel, through April 28.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at <http://www.spc.psu.edu/calendar/>

Arts

continued from page 6

Bach's Lunch

The Penn State Flute Ensemble, directed by **Eleanor Duncan Armstrong**, associate professor of music, and **Jeanne Proven**, graduate teaching assistant in flute, will perform at the Bach's Lunch concert at 12:10 p.m. Thursday, April 24, in the Helen Eakin Eisenhower Chapel on the University Park campus.

The free 20-minute concert is part of the Bach's Lunch series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

"Daisy Pulls It Off"

The Penn State University Resident Theatre Company will present Denise Deegan's comedy, "Daisy Pulls It Off," opening Friday, April 25, and running through Saturday, May 3, in the Playhouse Theatre on the University Park campus. "Daisy Pulls It Off" is directed by **Helen Manfull**, professor emerita of the School of Theatre Arts.

For tickets call the Arts Ticket Center at (814) 863-0255.

Singing Lions

The Singing Lions will present "A Celebration," an 80-minute concert featuring a variety of American popular music at 2 p.m. Sunday, April 27, in Eisenhower Auditorium on the University Park campus. The group also will be featured at the Fred Waring Choral Festival in Tyrone on May 3.

Tickets to the University Park performance are \$4 for general admission, \$3 for students, and will be available in advance at the Arts Ticket Center at (814) 863-0255 or at the door on the day of the performance.

Country music concert

New Country vocalist **Martina McBride** will perform at The Community Arts Center in Williamsport at 7:30 p.m. Thursday, May 29.

In 1992, McBride released her debut album, "The Time Has Come." Her other albums are "The Way That I Am" and "Wild Angels."

Tickets are \$18.50, \$23.50 and \$28.50, and go on sale at 10 a.m. Monday, April 28, at the arts center. For more information, call (717) 326-2424 or (800) 432-9382.

Cast change

Veteran actress **Cherry Jones** will replace **Dianne Wiest** in the spring tour of Shaw's "Don Juan In Hell," which is slated to play at the Community Arts Center in Williamsport at 7:30 p.m. Wednesday, May 7.

Ed Asner, **Rene Auberjonois** and **Harris Yulin** continue in the cast, as announced. Tickets are \$15.50, \$18.50 and \$22, and are on sale now. For more information call (717) 326-2424 or (800) 432-9382.



Air products photo

President **Graham B. Spanier**, second from left, Air Products University Relations Director **James Brockington** and Air Products Chairman **H.A. Wagner** celebrated the signing of an expanded research alliance during a luncheon with 200 Penn State alumni at Air Products' headquarters in Trovato, Pa., on April 11. The partnership with Air Products is one of eight master research agreements Penn State has undertaken recently with major corporations. These agreements enable the corporations to undertake collaborative research efforts with the university without the need to renegotiate terms each time, saving administrative time and money for both the University and the corporate partner.

Promotions

Staff

Melisa P. Dixon, senior purchasing agent in Business Services.

Edward J. Donovan, director of continuing education II in Continuing and Distance Education.

Susan E. Eisenhauer, staff assistant VI in College of Agricultural Sciences.

Sherry D. Ellenberger, staff assistant VI in Business Services.

Larry G. Erol, purchasing agent in Business Services.

Cynthia F. Fail, coordinator, residence life programs in Student Affairs.

Diana H. Feltenberger, staff assistant VI in College of Engineering.

Carol J. Fittery, finance and accounting assistant at The Hershey Medical Center.

Mary C. Fleming, director, cooperative education program in the Eberly College of Science.

Linda M. Gelmett, staff assistant VI at Penn State DuBois campus.

Jeanne A. Getz, staff assistant VI in College of Engineering.

Barbara J. Green, staff assistant VI at The Hershey Medical Center.

Robert H. Guisanie, staff services specialist II in College of Agricultural Sciences.

Donald C. Hampton, cinematographer/videographer II in Continuing and Distance Education.

Robert L. Hibbert, network coordinator in College of Engineering.

Thomas B. Houck, senior purchasing agent in Business Services.

John B. Kalbach, lead research programmer in Computer and Information Systems-Center for Academic Computing.

Rod N. Khayat, senior systems programmer in Computer and Information Systems-Center for Academic Computing.

Bonnie H. Leet, Children's Miracle Network assistant in Division of Development and Alumni Relations at The Hershey Medical Center.

Susan E. Lingenfelter, laboratory supervisor in Research and Graduate School.

Mary J. Lutz, staff assistant VI in College of the Liberal Arts.

Corintha J. McCall, staff assistant VI in Business Services.

Carl R. Meachum, orthotist at The Hershey Medical Center.

Jennifer L. Nauss, staff assistant VI at The Hershey Medical Center.

Wendy L. Neidig, LPN at The Hershey Medical Center.

Susan J. Newell, business analyst III at The Hershey Medical Center.

Paul G. Olivetti, director of development in Division of Development and Alumni Relations.

Kathleen M. O'Toole, producer/director in Continuing and Distance Education.

Janet L. Page, staff assistant VI in Business Services.

Curt L. Parker, cinematographer/videographer II in Continuing and Distance Education.

Connie J. Peters, staff assistant VI in College of Engineering.

Catherine A. Poe, counselor at Penn State McKeesport campus.

Pamela J. Reifinger, business system coordinator at The Hershey Medical Center.

Chrystal A. Rotz, assistant to director, University Relations at Penn State Mont Alto campus.

Bonnie J. Sager, staff assistant VI in Business Services.

Kim L. Sager, staff assistant VI at The Hershey Medical Center.

Tina Shawley, staff assistant V in College of Health and Human Development.

Eric M. Snyder, technical analyst II at The Hershey Medical Center.

Carol M. Spotts, staff assistant VI in College of the Liberal Arts.

Kendra G. Spring, staff assistant V in Business Services.

Kevin M. Stahl, senior purchasing agent in Business Services.

Pamela J. Stauffer, administrative assistant II in College of Engineering.

Craig R. Story, research programmer in College of Agricultural Sciences.

Donna L. Swartz, staff assistant V in Business Services.

Patricia A. Thomas, staff assistant IV in The Smeal College of Business Administration.

Tonia C. Tibbens, staff assistant VI in Business Services.

Stephanie M. Uhler, coordinator, professional fees at The Hershey Medical Center.

Faculty/Staff Alerts

Radio call-in show

The role of the arts at Penn State and American colleges and universities in general is the topic of the next edition of "To the Best of My Knowledge," President **Graham B. Spanier's** monthly call-in radio program on WPSU-FM (90.1, 91.5 & 106.7), airing at 7 tonight.

The university's role as conservator and curator of the arts has never been easy. Artists, art educators, arts administrators and the general public are invited to join in this discussion. Listeners can reach Spanier and his guest, **Dan Carter**, director of the School of Theatre Arts, by calling (800) 543-8242 during the one-hour program. Internet users worldwide will be able to link to sound and pictures from the program at www.psu.edu/ur/tech/tech.html, and they will be able to submit questions and comments via e-mail to response@psu.edu.

Hosted by **Patty Satalia**, "To the Best of My Knowledge" is a series designed to explore topics of concern to higher education and to allow listeners a chance to communicate directly with Penn State's president. Air dates for the series for the remainder of the year include: May 8, June 10, July 15, Aug. 13, Sept. 8, Oct. 16, Nov. 13 and Dec. 18.

Upcoming HRDC courses

Call the Human Resource Development Center at (814) 865-8216 to register for the following programs:

■ Work Teams in Today's Organization

Get answers to questions like: Why teams? How can teams benefit an organization? April 28, from 1-4:30 p.m., 319 Rider Building. Cost: \$35.

■ Going with the Flow of Change

April 29, 1:30-3:30 p.m., 319 Rider Building. Cost: \$25.

■ From Angry to Amiable: Calming Upset Customers

April 29, 8:30-11:45 a.m., 118 Agricultural Sciences and Industries Building. Cost: \$35.

■ NEGAHOLICS: How to Handle Negativity in the Workplace

April 30 and May 2, 1:30 - 4:30 p.m., 118 Agricultural Sciences and Industries Building. Cost: \$65.

■ The Communication Tool Kit for Teams

May 1, 9:30-11:30 a.m., 319 Rider Building. Cost: \$35.

■ Conversational German for Practical Situations

May 2-June 20, from noon to 1 p.m., 319 Rider Building. Cost: \$55.

Health Promotion Program

Yoga Series — summer sessions

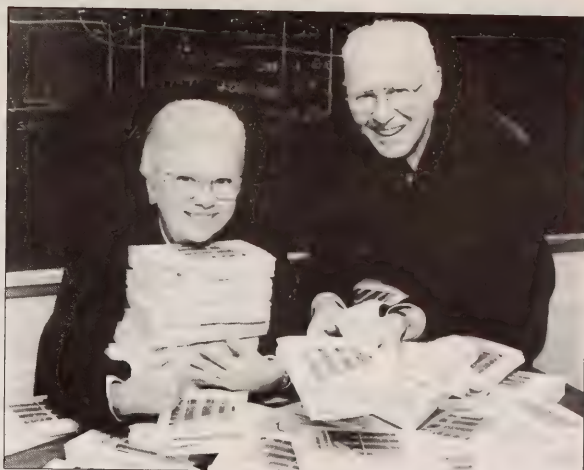
Four seven-week sessions are offered; each meets from noon-1 p.m. Cost is \$35 per session, reimbursable to HMO participants taking the series for the first time. To register, contact **Jan Hawbaker** at (814) 865-3085 or jah3@psu.edu.

Section 1: Tuesdays, June 3-July 15, 110 Hendersson Building (Living Center)

Section 2: Tuesdays, July 22-Sept. 2, 110 Hendersson Building (Living Center)

Section 3: Wednesdays, June 11-July 23, 133-F Johnston Commons

Section 4: Wednesdays, July 30-Sept. 10, 133-F Johnston Commons



New senior interest guide available

The Gerontology Center in the College of Health and Human Development has issued a new edition of its *Senior Citizens' Interest Guide to Campus Life*, complete with campus map, which briefly outlines some of the University Park campus programs and services of special interest to senior adults. With information on parking, transportation, and special assistance, its goal is to encourage seniors to explore and actively participate in campus life.

The guide was developed by Nancy and Glenn Gamble of State College who are volunteers in the Outreach Program of the Gerontology Center which works to promote a University/community partnership on senior issues. For more information, contact Susan Keller at (814) 865-1710.

How is Penn State funded?

The Office of University Relations has published a new booklet, *How Penn State is Funded*, that describes the various sources of income that make up the University's total operating budget of nearly \$1.7 billion. The booklet also summarizes Penn State's financial relationship with the Commonwealth, explains how endowments work and includes comparative data from other institutions. Copies are available by directing e-mail to als5@psu.edu or calling (814) 863-4512. They also may be picked up in 301 Old Main.

Engineering database added

Penn State students, faculty, and staff now have access to the world's most comprehensive interdisciplinary engineering database through the World Wide Web. CompendexWeb, the Web-based version of the Compendex database, covers engineering literature such as journal articles and conference papers from 1970 to the present. More than 220,000 abstracts are added each year.

Located at URL <http://cpweb.ei.org>, the system logs visitors on automatically if they are connecting from an on-campus computer or via a Penn State access account. Compendex Web will replace the EIP database and the Compendex CD-ROMs as the University Libraries' primary database access to the engineering literature.

Search guides are available on the Electronic

Reserves System (<http://reserve.libraries.psu.edu/>) and in the Engineering Library.

Web site allows mapping capabilities

The University Libraries' Maps and Data Center has created an interactive Web site that allows users to map out statistics by counties in Pennsylvania.

Users have two options when working the information, located at <http://busmap.psu.edu/cbp/>. They can choose County Business Patterns that presents business statistics by Standard Industrial Classification within Pennsylvania's counties. When creating a map on this site, users follow screens that help them to choose from the thousands of datafiles. There also are 17 variables which describe various attributes of the industries. Users can also access USA County Data that offers more than 3,000 variables including agriculture, crime, elections, income and vital statistics. Both datasets allow users to choose color and mapping options that will help make a unique map.

One of only a few Web sites to offer interactive mapping, County Business Patterns provides data covering most of the divisions of the economy (i.e., agricultural services, mining, construction, manufacturing, transportation, public utilities, wholesale trade, retail trade, finance, insurance, real estate, and services).

Awards

Alcohol abuse prevention efforts recognized

Five Penn State groups and three individuals were honored for their contributions to the prevention of alcohol, tobacco and other drug abuses.

Honored for their innovation, enthusiasm and leadership beyond the expectations of their position or organization are the following:

■ **The Arnold Air Society** for its assistance with the "Slay the Dragon" program, a Jeopardy-style alcohol and drug awareness game for junior high and high school students.

■ **The College of Communications** for its work with the Office of Health Promotion and Education, University Health Services and the Pennsylvania Liquor Control Board to disseminate education about alcohol issues to hundreds of students in the college. Projects such as public service announcements, videos, campaigns and research on the impact of advertising and youth were implemented.

■ **Moderation Management Program** at Penn State Erie, The Behrend College, for its three-tiered approach to dealing with minor alcohol offenses, more serious offenses and repeat alcohol offenders.

■ **The Resident Assistants of Atherton Hall** on the University Park campus for creating and implementing an alcohol-free program, "Puttin' on the Ritz." The program provided alcohol education and entertainment.

■ **Student Peer Athlete Network, SPAN**, for its members' commitment to serving as positive role models for elementary-aged children. Member activities include reading books to kindergarten children, talking about being a "Champion for Life" and speaking to MADD groups and at Boy Scout dinners.

■ **Natalie J. Croll**, assistant director of the office of Health Promotion and Education, for

her efforts toward drug and alcohol abuse prevention. She has enhanced the Alcohol Intervention Program, advised LIFE House and worked on alcohol and sexual assault issues for orientation. She is currently working with Greek leadership to help address alcohol issues.

■ **Kenneth P. Miller**, associate dean of student affairs at Penn State Behrend, for his leadership and support in establishing a LIFE House for substance-free living and the new dormitory management approach to alcohol and other drug abuse.

■ **B. Alan Snider**, professor of agriculture and extension education and assistant director, for his work to reduce tobacco usage among Pennsylvania's youth. He has recruited and developed youth tobacco control coalitions, provided educational workshops for county agents and local adults and organized tobacco control conferences.

Scholarly publications produced by Penn State Press earn awards

Several scholarly books published by the Penn State Press have garnered awards. They include:

■ *The New Miners of Windber: The Struggles of New Immigrants for Unionization, 1890s to 1930s* by Mildred Allen Beik, which received the International Labor History Association Book of the Year Award for her pathbreaking study and analysis chronicling the long and complicated labor struggle of the Windber miners;

■ *The Painted Photograph, 1839-1914* by **Heinz K. Henisch**, professor emeritus and **Bridget Henisch**, which received the Rudolph and Hertha Benjamin Book Award of the American Photographic Historical Society for its "contributions to the understanding of the history of photography;"

■ *Poetic Madness and the Romantic Imagination* by Frederick Burwick, which earned the American Conference on Romanticism Book Prize;

■ *The Abolition of Feudalism: Peasants, Lords and Legislators in the French Revolution* by John Markoff, which won the Pinkney Prize of the Society for French Historical Studies;

■ *A Civil Tongue: Justice, Dialogue and the Politics of Pluralism*, by Mark Kingwell, received the Spitz Prize of the Conference for the Study of Political thought for the best book in democratic and/or liberal theory; and

■ *The Caribbean Legion: Patriots, Politicians and Soldiers of Fortune, 1946-1950* by **Charles Ameringer**, professor emeritus of Latin American history, received the Arthur P. Whitaker Book Award.

Maps librarian is honored for Web access analysis

Maps Librarian **Melissa Lamont** has been honored with the 1997 Readex/GODORT/ALA Catharine J. Reynolds Award, sponsored by the Government Documents Round Table of the American Library Association.

Lamont's winning research proposal described an analysis of World Wide Web access to state and local government information.

The proposed project would assess the climate for the distribution of state and local government information on the Web with Pennsylvania as a case study. Lamont's research will include an analysis of the costs, equitability of access and the general inclination of governments to use the Internet.

Recommendations for libraries concerning partnerships and resource sharing, as well as an analysis of the primary trends for Web accessible government information will result from the study.

25-year Awards



GEORGE FELDER III



BARBARA J. HART



WILLIAM T. HUGHES



HAROLD J. MOWERY JR.



RICHARD T. OBERMYER



JOHANNA M. RIPPER

Observing 25 years of service are, from left, George Felder III, director of the fabrication section of artificial organs, Department of Surgery, at The Hershey Medical Center; Barbara J. Hart, director, Learning Center, McKeesport campus; William T. Hughes, program coordinator, senior division of Undergraduate Studies at Penn State Mont Alto; Harold J. Mowery Jr., carpenter A in the Office of Physical Plant; Richard T. Obermyer, professor of physics at the Penn State McKeesport campus; and Johanna M. Ripper, staff nurse, Nursing/OPS S, The Hershey Medical Center. Also celebrating from the Penn State Fayette campus, but who have no photo available, are August H. Simonsen, campus executive officer; Doris Wright-Coldren, acting coordinator of the Division of Undergraduate Studies and University Scholars adviser; Kent A. Crossland, maintenance foreman; and Gerald K. Rigger, maintenance mechanic B.

Penn State/Minnesota partnership developing older driver options

By BARBARA HALE
Public Information

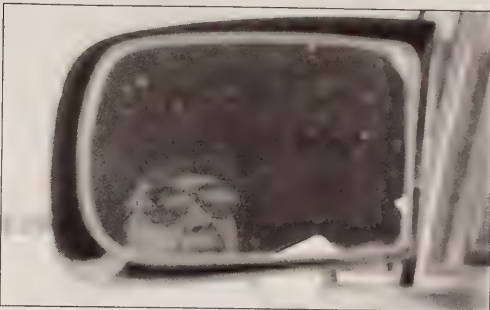
Researchers at Penn State and the University of Minnesota have joined forces to design new measures to prolong the safe driving time of older Americans and increase mobility options for aging citizens in rural environments.

Eddie C. Crow, program manager at the Applied Research Laboratory, is directing the new effort, known as the Partnership for Safety, Unrestricted Mobility and Access (PSUMA). Martin T. Pietrucha, professor of civil engineering and research associate at the University's Pennsylvania Transportation Institute, is Penn State coordinator and Dennis Foderberg, director, ITS Institute, Center for Transportation Studies, is Minnesota coordinator.

"Pennsylvania and Minnesota are similar demographically," Crow said. "For example, Pennsylvania ranks No. 1 in the number of older citizens living in small towns and rural locations and Minnesota is among the top five states. Rural living translates into a sole dependency on cars since other options, like public transit, often don't exist."

"While our new program is designed primarily for older drivers in Pennsylvania and Minnesota, the results of these studies will be applicable to aging Americans throughout the U.S.," he said.

Foderberg added, "The need for such an initiative is great and can only grow."



A new program that grew out of the research partnership between Penn State and the University of Minnesota is designed to prolong the safe driving time of older Americans.

Photo: Greg Gresco



EDDIE C. CROW

The loss of driving privileges is one of the biggest stressors in life. Meanwhile, it's been predicted that the over-65 population will double by 2020. The issues surrounding older drivers affect nearly everyone, but they're most severe in rural areas."

Three projects within the program are currently under way and expected to



MARTIN T. PIETRUCHA

yield initial results in about nine to 12 months. These include:

- Cognitive Retraining — Gerontology researchers at Penn State are identifying critical mental capabilities for safe driving which diminish as a result of normal aging but can be regenerated with specialty training. The training both restores the abilities

of failing drivers and maintains the performance of able ones.

- Mobility Planning and Alternative Mobility Options — Partners from Penn State and Minnesota are developing ways for older citizens to determine proactively and plan for future mobility needs and the means to get around in order to maintain an active and high-quality lifestyle.

- Alternative Mobility Planning — Transportation researchers will examine mobility alternatives that maximize efficiency through optimized carpooling or ride-sharing and by linking non-drivers with traditional volunteer and formalized volunteer programs. Coordination of mobility services with a transportation broker is also foreseen to be an effective way of increasing the use of current services.

Hershey offers light-activated cancer medicine

This year, 12,000 people will be diagnosed with esophageal cancer, a deadly disease that severely limits a person's ability to eat and drink. The Hershey Medical Center, in conjunction with Sanofi Winthrop Inc., has announced the availability of Photofrin (porfimer sodium) for Injection, a unique light-activated drug for photodynamic therapy to help those with advanced esophageal cancer.

Photofrin is the first light-activated drug approved in the United States for the palliative treatment of patients with completely obstructing esophageal cancer, or of patients with partially obstructing esophageal cancer who, in the opinion of their physician, cannot be satisfactorily treated with standard thermal laser therapy.

"We are excited about being able to offer this new minimally invasive treatment option to patients," said Dr. Mukul Khandewal, assistant professor of medicine at the medical center. Khandewal works in collaboration with Dr. Thomas S. McGarrity, associate professor of medicine. "This new procedure can be conducted on an outpatient basis or otherwise requires only a short hospital stay," Khandewal said.

Esophageal cancer can block the normal ingestion of liquids and solid nutrition and, at times, may prevent the patient from swallowing saliva. The condition can require extensive and costly surgical intervention, IV nutritional therapy and lengthy hospitalization.

In a pivotal clinical trial, 94 percent of patients with complete esophageal blockage who received Photofrin showed objective tumor response, and 76 percent obtained some improvement in swallowing.

For more information on this light-activated therapy, call The Hershey Medical Center at (717) 531-4874.

Athletes need both fat and carbohydrates for well-balanced diet, study shows

One of an athlete's favorite beliefs — fat is bad food, carbohydrates are good — needs to be re-examined in the light of facts, according to the Penn State Sports Medicine Newsletter.

"A lot of athletes have the idea that fat is a poor nutrient and feel almost superior if they survive on a fat-free diet," said Kristine L. Clark, a member of the newsletter's editorial board. "In reality, fat is an

essential nutrient. If you don't eat some fat, there is a good possibility that total calories will be inadequate. Just as many athletes over-consume carbohydrates, they under-consume fats," said Clark, coordinator of the sports nutrition program for the University's varsity athletes.

Athletes are told continually that 55 percent to 60 percent of their calo-

ries should come from carbohydrates, meaning starchy carbohydrates such as bread and cereals. However, they fail to realize that carbohydrates also occur in fruits, vegetables and dairy products, and thus they consume more starches than they should.

"Athletes also put too much stock in dietary supplements while at the same time overlooking the nutritional value of red meat," Clark said.

Furthermore, athletes make the mistake of not consuming enough fluids. In addition, they need to remember to eat a balanced meal about four hours before competition and a pre-game snack one hour before.

Finally, athletes should take in carbohydrate-rich foods within two hours after intense exercise, Clark said.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Sign of spring

The annual Blue-White football game will be held at 2 p.m. Saturday, April 26, at Beaver Stadium. Admission is free and the scrimmage will be preceded by an autograph session at 12:15 p.m.

National champions

The Penn State fencing team won its third straight National Championship and its fifth in the past eight years at the NCAA Championships held recently in Colorado Springs, Colo. Only two other schools in NCAA history have won three consecutive fencing titles — Columbia-Barnard and Wayne State.

Tops in the classroom

The Lady Lion swimming team posted the top grade-point-average in the nation among NCAA Division I programs, according to a survey released by the College Swimming Coaches Association of America. Coach Bob Krimmel's team had a composite GPA of 3.34 to edge out Duquesne in second place. The women swimmers also had the top GPA among Penn State athletic teams during the 1995-96 academic year. A total of nine Penn State teams had a GPA of 3.0 or higher during the past academic year.

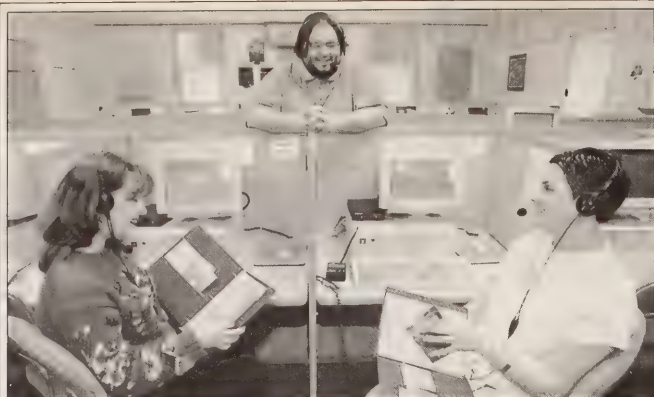
All-America honors

Senior Joe Roemer recently became the first Nittany Lion gymnast to earn GTE Academic All-America honors. Roemer was named to the men's fall/winter at-large second team as selected by the College Sports Information Directors of America. A 3.77 student in finance, Roemer also is one of 12 finalists for the Nissen Award, presented annually to the nation's top male collegiate gymnast.

Honored

NCAA and Big Ten Conference heavyweight wrestling champion Kerry McCoy, who finished his season with a spotless 41-0 record, was selected as the winner of the 1997 Dan Hodge Trophy, which is wrestling's equivalent of college football's Heisman Trophy. McCoy won 131 of his last 132 matches and dominated one of the nation's toughest weight classes to finish his career with a 150-18 record.

For the latest information on Penn State Sports, be sure to visit the official Intercollegiate Athletics Web site at <http://www.psu.edu> (Click on sports).



It's an art

Talking on the telephone is second nature for many college students. But, for a select group of Penn Staters, it has literally become their "calling." Three, in particular, have made their mark at Penn State hitting career highs as part-time telephone fund-raisers for the University. Students Marleen Frick, Michael Cipriani and Tonya Cummings, over the course of their part-time calling careers, have raised more than \$100,000 for academic programs at the Lion Line headquarters. Lion Line, within the division of University Development, hires students as part-time callers to raise funds. Since 1983, only nine students have accomplished what these three have achieved.

Photo: Greg Grieco

Hershey's Life Lion helicopter turns 10

The Center for Emergency Medical Services at The Hershey Medical Center will celebrate the 10th anniversary of its Trauma Services and Life Lion aeromedical programs from 11 a.m. to 4 p.m. Saturday, April 26. The center invites the entire community to come out and help honor the accomplishments and the history of Trauma Services and Life Lion.

Tours of both will be available, with the public able to sit in the seat of the helicopter that has assisted in saving thousands of lives, see the state-of-the-art Trauma Center and get a realistic impression of the daily activities that emergency medical staff perform.

Various displays will tell the history

of the Trauma Center and of Life Lion. Free hot dogs, hamburgers, potato chips, birthday cake, soda and more will be available on the front lawn of the medical center.

Other activities include face painting, a Teddy Bear Clinic and appearances by the Zombo Clowns, the crash test dummies and the Nittany Lion.

In 1986, The Hershey Medical Center received its trauma accreditation and Life Lion was launched. The first patient airlifted survived a myocardial infarction on Dec. 12, 1986.

The Hershey Medical Center received its accreditation as a Level I Regional Resource Trauma Center in 1987 with additional qualifications in pediatrics in 1993. A specially-trained

multi-disciplinary trauma team composed of surgeons, emergency physicians, nurses, anesthesiologists, radiologists and many others are available 24 hours a day for immediate response if the patients' injuries require additional support.

Serving 17 central and south central Pennsylvania counties and more than 2.3 million people, Life Lion provides aeromedical transportation for critically ill and injured patients to tertiary care or trauma centers throughout the region. Available 24 hours a day, the Life Lion critical care teams provide an intensive care environment during transport. For more information on the celebration, call The Hershey Medical Center at (717) 531-8606.

PENNSTATE INTERCOM

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Jordan returns to speak on winning back the public trust

By LISA M. ROSELLINI
Public Information

Universities are in a state of crisis, brought on by growing public mistrust, according to former Penn State President Bryce Jordan, who said one way to win back public confidence is through extensive outreach efforts and a reinvention of the land-grant tradition.

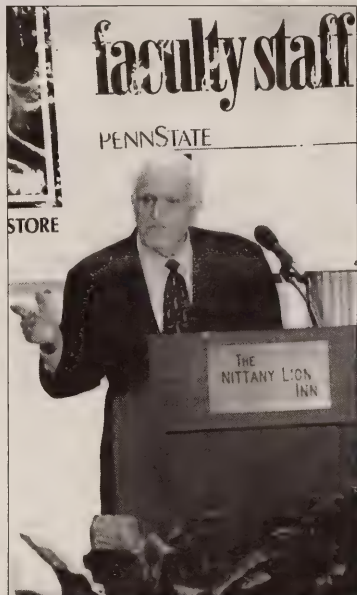
Jordan, who spoke on April 16 as part of the Penn State Forum lecture series on the University Park campus, said the "crisis of public confidence" is not new, but is growing—and stronger voices are joining the clamor of public discontent and the call for accountability.

"These opinions deserve careful attention," Jordan said, acknowledging that some of the public perceptions are based on inaccuracies. "They have sensed the public dissatisfaction and are playing to that attitude."

Quoting from books by both Newt Gingrich, speaker of the U.S. House, and Dick Armey, House majority leader, Jordan pointed out that both men seem to think higher education is "out of control" and its "faculty are out of touch." Gingrich and Armey criticize universities for being poorly managed, expensive, defined by snobbery and run for the benefit of faculty.

"Not only have these two politicians with personal agendas spoken to the public's dissatisfaction," he told the record crowd of 320 listeners, "but voices within the academy have also begun to speak with concern about it."

In a recent Kellogg Commission See "Jordan" on page 3



Welcome back

Former President Bryce Jordan spoke to a full house at the Faculty Staff Club's Penn State Forum at the Nittany Lion Inn on the University Park Campus April 16.

Photo: Greg Grieco

Couple pledges \$5 million gift to University

Penn State alumni Edward R. and Helen Skade Hintz have pledged \$5 million to the University, part of which is designated to help build a new alumni center and part is for graduate fellowships, international studies and other academic priorities.

Ed Hintz, a New York investment manager and Penn State trustee, was recently named chair of the University's forthcoming capital campaign. Helen Hintz will serve as vice chair for the College of Health and Human Development's segment of the campaign.

The alumni center is planned as an addition to University House on the University Park campus and will be financed entirely by private funds.

"The center is a facility that we have long needed, given the steady growth in alumni activities," President Graham B. Spanier said. "Although we have

See "Gift" on page 2

Penn State Erie receives gift of \$2 million. See page 3 for details.

Funding allotted for 34 projects to enhance undergraduate education

Thirty-four projects expected to enhance undergraduate education at Penn State through innovative methods have received the support of the Fund for Excellence in Learning and Teaching (FELT) administered by the IDP/Center for Excellence in Learning and Teaching. The average support for these FELT projects is \$3,400, but the actual funding ranges from \$1,500 to \$10,000 for individual projects.

Selected from a field of 114 program proposals submitted this past year by faculty from across the University in a wide range of disciplines, these 34 teaching and learning projects incorporate a combination of methods to increase educational objectives. A mix of good practices, such as student-faculty contact, communicating high expectations, active learn-

See "Funding" on page 2

Inside



Mark your calendar

Spring Commencement ceremonies for all 23 campus locations have been set for the weekend of May 16. For details on University Park ceremonies, please see page 5.



Research

Experiments have led to the discovery of new clues into the causes of morning sickness. To find out more, please see Focus on Research on page 15.

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Visiting scholars contribute international perspective to communi-

The Penn State community has more than one way to broaden its international perspective.

While hundreds of students and faculty study and conduct research abroad each semester, increasingly, those at home are also getting an international education — from visiting scholars on campus.

"About 750 international scholars from 58 countries a year visit, teach and do research at Penn State under the J-1 Visiting Scholar Program," Billie Willits, assistant vice president for human resources, said.

"Our visitors are typically very generous with their time, sharing experiences, expertise and information about their cultures with graduate and undergraduate students. As a group, they add tremendously to our diversity, energy and resources."

Helping to make these visits possible is the primary job of the Foreign National Employment Services Program in the Office of Human Resources. Staff help faculty hosts and scholars with exchanges, documentation and visas. They also work with departments on strategies to accomplish the exchange and ensure compliance with immigration and labor laws.

"This year, we have started a database on our visiting scholars for those interested in tapping into this tremendous pool of global talent," said Rosalie Bloom-Brooks, manager of the Foreign National Employment Service. "We now can generate information on who is here and in what areas of research or expertise. Scholars can find out who has recently come from their home country or is here in their discipline. Penn State campus groups, student and community organizations can identify appropriate international speakers for their occasion."

International visiting scholars come to Penn State throughout the year. While many are at the University Park campus, about 5 percent have headquarters at Penn State Harrisburg, Penn State Erie or another campus. The J-1 Visiting Scholar visa, which is granted through an exchange program under the umbrella of the United States Information Agency, allows scholars to stay for a few months to a maximum of three years for research, teaching and other scholarly activities.

These scholars not only add to the academic resources of the University, they also add substantially to the University's financial health. Many bring with them salaries or research support from their home institutions, sponsoring countries or institutes. While the combined salaries of visiting faculty on J-1 visas in 1995 (the latest year full data is available) came to \$10 million, nearly half, or \$4.5 million, was paid by non-Penn State sources.

Additionally, Penn State participates in national programs, such as hosting participants in the teaching and research Fulbright programs and the Hubert Humphrey program for mid-level government officials in developing countries. Some international scholars come for shorter periods of time on other special programs for artists, business executives and North American Free Trade Agreement projects, for workshops and conferences or through individual exchanges with departments and faculty. Another 200 international academics each year are at Penn State for extended periods of time.

"Both the University and the scholars gain understanding and international exchange," said Bloom-Brooks. "The University gains the services of the world's best at an incredible value — and even more of a value when we consider the nearly \$600,000 that scholars spend of their own personal funds to live here — and Penn State becomes more of a global resource with each visiting scholar who returns home."



Generous donors

The \$5 million gift from Edward R. and Helen Sade Hintz will go toward building an alumni center, planned as an addition to University House (right) on the University Park campus. The money will also go toward graduate fellowships, international studies and other academic priorities.



Photos: Greg Grieco

Gift

Continued from page 1

the largest dues-paying alumni association in the world — more than 140,000 members — we're one of the few major universities that has no dedicated alumni center."

The center will serve as a gathering point for returning alumni and offer information about the University's academic achievements, campus tours and special events. It will contain meeting rooms, a hall of honor recognizing outstanding alumni and space for alumni association staff. The structure's estimated cost is approximately \$7 million. Architectural design will begin later this year and construction could begin as early as 1998.

Ed Hintz graduated from Penn State in 1959 with a bachelor's degree in finance. After receiving an MBA from Harvard in 1963 and working as an analyst/portfolio manager for a number of years, he founded the investment firm of Hintz, Holman and Hecksher Inc. in 1975. He has been a Penn State trustee since 1994. Last fall President Spanier named him to head the University's next capital campaign. The campaign's dollar goal has not been set.

Funding

Continued from page 1

ing, collaboration across disciplines and the use of information technology, were submitted during the proposal process.

Some examples of funded projects include:

■ "A Collaborative Approach to Teaching Philosophy of Science," proposed by Weaver Santolucito, philosophy, and Ike Shibley, chemistry, both from Penn State Berks. This project will help students attain a more holistic view of philosophical and ethical problems relating to science and its practices by demonstrating that philosophers help further scientific knowledge, just as scientists contribute to moral thinking.

■ "The Use of Computer Analysis in the Teaching of Applied Music," proposed by Mark Lusk, associate professor of music, Roger Martin, materials, Tad Rollow, acoustics, and Herbert McKinstrey, associate professor of solid state technology, all at University Park. This project will involve designing a computer environment that would include real-time analy-

Hintz also was a vice chair of The Campaign for Penn State, which raised \$352 million for academic programs from 1984 to 1990, and chaired the National Development Council, the University's top fund-raising advisory body from 1993 to 1996.

Helen Hintz, a 1960 graduate in consumer services, is coordinator of career development for the department of nutrition, food and hotel management at New York University, where she received her master's degree in 1987. She is an adviser to Penn State's College of Health and Human Development on advancement issues, including communications, fund raising and alumni relations.

In addition, Ed Hintz led the campaign that raised \$22 million in gifts to help build Penn State's Bryce Jordan Center, and the couple served on the committee that raised more than \$12 million for the new Paterno Library. Their previous philanthropy to the University has included gifts to support faculty and students in the College of Health and Human Development, the School of Music and at the Penn State Berks campus.

sis of audio wave forms and will greatly enhance the instrumental teacher's ability to communicate aspects of sound qualities such as pitch and amplitude and the student's ability to comprehend that knowledge and make necessary modifications.

In addition to the 34 proposals funded, 17 proposals were forwarded to Educational Technology Services for consideration in phase II of its Faculty Technology Initiative. Projects not funded by ETS will be eligible to receive FELT money. Diane Emerson, director of IDP/Center for Excellence in Learning and Teaching, said a list of abstracts from funded proposals should be available early this summer to further discussion and planning for enhancing undergraduate education.

A complete list of supported proposals may be obtained from IDP/Center for Excellence in Learning and Teaching, 401 Grange Building, telephone: (814) 863-2599; or can be viewed on the Web beginning on June 1 at http://www.psu.edu/idp_celt

Couple commits \$2 million to Penn State Erie

Edward P. "Ted" Junker III, former vice chairman of PNC Bank Corp., and his wife, Barbara Frederick Junker, have endowed the Penn State Erie, The Behrend College's athletic program with a \$2 million dollar gift.

The pacesetter gift, announced in conjunction with Penn State's upcoming capital campaign, will be used to endow Penn State-Behrend's athletics program. Ted Junker, a trustee of the University, was recently named chair of the capital campaign for Penn State Erie.

"We think there's no single engine that drives economic development more than higher education," Junker said in a recent joint interview with his wife. "Athletics is part of a well-rounded campus life, and we chose this opportunity to enhance the program now and for the future."

Barbara Junker said she and her husband believe athletics help develop character, discipline, and self-esteem. The Junkers, who met as students at Penn State, both participated in athletics at the college

level. Barbara Junker received her degree in and taught physical education, and also coached basketball. She is well known for her commitment to public education, and is currently serving a 16-month appointment on the Fairview School Board.

The Junkers have a long history of involvement with Penn State. Both are alumni and hold lifetime membership in the Penn State Alumni Association. Members of the Mount Nittany Society, they endowed the Edward P. and Barbara F. Junker Scholarship at Penn State-Behrend in 1987.

Although the Junkers attended Penn State's University Park campus, as did their three daughters and their three sons-in-law, they are very committed to Penn State-Behrend. Ted Junker is a 1960 graduate of Penn State and a 1969 graduate of the Stonier Graduate School of Banking at Rutgers University. He joined Marine Bank — predecessor to PNC Bank, Northwest PA — as an assistant vice president in 1964 and rose through the ranks to become chief executive officer in 1983. In 1985

he was elected chairman of PNC Bank, Northwest PA, and vice chairman of PNC Bank Corp. He served as president of the Pennsylvania Bankers Association in 1988-89.

He is a member of the board and former chairman of the board of the Council of Fellows at Penn State-Behrend. In 1984 he received the Philip Mitchell Alumni Service Award; three years later, he was awarded the lifelong designation, alumni fellow, by both Penn State-Behrend and the College of Health and Human Development.

Junker, who is currently serving his second term as vice president of Penn State's Board of Trustees, was first elected to the board in 1986.

Penn State's capital campaign will aim primarily to raise private funds for scholarships, graduate fellowships, faculty endowments and a variety of academic programs. The dollar goal for the campaign will be announced at a later date, according to President Graham B. Spanier.

Jordan

Continued from page 1

report on the future of state and land-grant universities released on April 2, the members of the commission — 25 current and former university presidents, including Penn State's President Graham B. Spanier — concluded that public higher education is facing a number of challenges, among them an eroding public trust. The commission, through its report "Returning To Our Roots," is pressing for public universities to change and stressing a need for them to reaffirm their missions.

When the report was released, Gordon Gee, commission chair and president of The Ohio State University, said "Our greatest concern is that universities will become irrelevant in the public mind."

During his talk, Jordan echoed these sentiments and said the crisis of public mistrust has brought on an "opportunity" for land-grant institutions like Penn State and Ohio State to be at the forefront of the battle to regain public confidence. Because the land-grant tradition of public service and outreach is already well-established in the agricultural colleges of these institutions, it would not be a quantum leap to envision an updated, enhanced and broadened public service mission that permeates the entire university. Building on an already solid foundation of service found in the agricultural colleges, institutions should move to increase the amount of outreach conducted across the entire spectrum, according to Jordan.

"We need to find new, diverse paths to become increasingly useful," Jordan said. "I envision the suffusion of the entire public university with the land-grant tradition to better serve the public and our communities."

But before Penn State or any other institution can embark on a path to strengthen its service mission and integrate it into all corners of the uni-



Full house

Former President Bryce Jordan spoke to a gathering of roughly 320 people — the largest group ever to attend a Penn State Forum.

Photo: Greg Grieco

Before Penn State or any other institution can change, some "internal conflicts" need to be resolved — mainly the debate over tenure and finding the appropriate balance between research, teaching and service.

versity, Jordan said some "internal conflicts" need to be resolved — mainly the debate over tenure and finding the appropriate balance between research, teaching and service.

"Our standards for faculty appointment, promotion and tenure will most certainly have to be revised," he said. "We are all aware of the sharp division in faculty attitude (on this topic) — if there are to be new and different standards for the awarding of merit promotions and pay

increase for the delivery of outreach services to the public, then the support of the university's entire faculty, including those not primarily involved in outreach, must be sought."

James Moeser, chancellor of the University of Nebraska and former dean of Penn State's College of Arts and Architecture, said any university's greatest enemy to this type of change will be the "hardened walls that separate department from department, college from college, and campus from campus."

In an interview about the topic of Jordan's talk, Moeser said universities must resist the tendency to allow individual units to continue "owning" specific segments of knowledge.

"We don't have enough time to reorganize the entire university, and even if we did, the answer doesn't lie in replacing old walls with new ones," Moeser said. "Rather, we must find ways to turn walls into permeable membranes."

Jordan also touched on the subject of interdisciplinary efforts, stressing

the need for collaboration in helping to solve society's most complex problems. He was quick to point out that interdisciplinary efforts are difficult to achieve and sustain. No change will happen at Penn State without the wholehearted support from faculty, administrators and the Board of Trustees, Jordan said.

"What I am suggesting is the reorientation, perhaps even a massive one, of the mission of the American land-grant university," Jordan said. "It is easy to enunciate this view — much easier than implementing it."

To accomplish such a vast goal, Jordan said university leaders must begin by building a consensus among all who have a stake in higher education — including external audiences. In addition, those within the university setting must be flexible and open to change.

"Despite the changes going on all around them, universities continue largely to cling to their traditional ways," Jordan said. "Achieving even a portion of what I believe is needed (in outreach), is a formidable task."

LECTURES

Sloan Foundation head to give talk on May 9

Ralph E. Gomory, president of the Alfred P. Sloan Foundation, will present "New Opportunities for Learning Outside the Classroom" at the Penn State Forum from 11:30 a.m. to 1 p.m. on May 9 at The Nittany Lion Inn on the University Park campus. The Penn State Forum is a speaker series sponsored by the Faculty Staff Club and the Penn State Bookstore.



RALPH E. GOMORY



more than 40 experiments in four years. The foundation looks for programs that explore the use of technology to enhance education.

Tickets are \$10 and include lunch. Reservations can be made by contacting the Penn State Faculty Staff Club office in 110 HUB. Departments may reserve 10-person tables; tickets will also be on sale at the door. Lunch begins at 11:30 a.m. followed by the speech at noon. For more information call (814) 865-7590.

Gomory will talk about what we know — and don't know — about the new electronic era in education and training, as well as the human and institutional barriers to change that universities face.

Under the leadership of Gomory, the Sloan Foundation has invested in

Rebuilding families is topic of author's May 15 lecture

Mary Pipher, author of the best-seller *Reviving Ophelia: Saving the Selves of Adolescent Girls*, will speak and answer questions on her latest book, *The Shelter of Each Other: Rebuilding Our Families* at the Penn State Conference Center Hotel at 8 p.m. May 15. Admission, which is open to the public, is \$15 (\$10 for full-time students).

Pipher is a clinical psychologist in private practice, as well as an associate professor in the psychology department and visiting professor in the clinical psychology training program at the University of Nebraska. She also wrote *Hunger Pains: The American Woman's Tragic Quest for Thinness*.

For those interested in a more in-depth presentation, Pipher will lead a daylong workshop for counselors, educators, social workers and spiritual leaders on strengthening families on May 16 at the conference center hotel. Pipher's appearance is a continuing and distance education service of the College of the Liberal Arts.

For more information about the lecture or the workshop, contact Lori Benson at (814) 863-5120 or by e-mail at ConferenceInfo@cds.psu.edu.

To register for the workshop, call (800) 778-8632 or visit the Web at <http://www.cds.psu.edu/C61/EachOther/>.

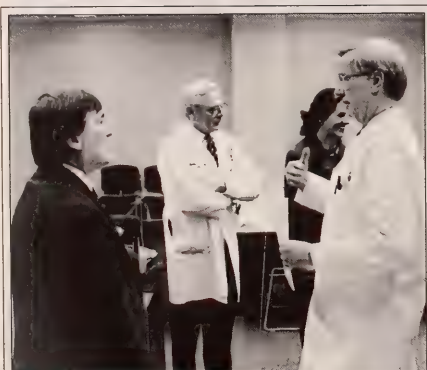
Learn about health benefits of humor at May 22 speech

Karyn Buxman, nurse, humorist, author and radio personality, is the scheduled keynote speaker for the 16th Annual Women's Day on Campus program to be held on Thursday, May 22, at the Penn State Fayette campus.

Buxman combines her skills as a health professional and a humorist to bring a message that will not soon be forgotten. She presents to thousands of business and health professionals from coast-to-coast and abroad how to put humor into their personal and professional lives.

A member of the National Speakers Association, the International Society of Humor Studies and the American Association of Therapeutic Humor (AATH), as well as editor of *Therapeutic Humor*, the national newsletter for AATH, Buxman's achievements include "Nurse of the Year" by the Missouri Nurses' Association, "Young Business Woman" by a Missouri chapter of Business and Professional Women and several others.

For more information, phone Barbara Solesky at (412) 430-4153 or Harriet Galida at (412) 430-4140.



On tour

Richard J. Courtney, professor and chair of the Department of Microbiology and Immunology, (right) talks with Eric J. Barron, director of the Earth System Science Center and professor of geosciences (left) during a recent tour of the College of Medicine. The tour is part of an effort organized by the president's office to help deans and administrators become more familiar with various aspects of Penn State. This tour is similar to the annual statewide tour for faculty members conducted by President Graham B. Spanier. Next stop for deans and administrators is Delaware County and Worthington Scranton campuses on April 25, New Kensington on April 30 and Penn College on May 1.

Faculty Senate committee to produce report on undergraduate education

After a year of taking a hard look at undergraduate education at Penn State, the University Faculty Senate's Special Committee on General Education is about to shoulder its summer writing assignment: putting its recommendations into a final report that will be submitted to the Faculty Senate in the fall.

Robert Pangborn, chair of the committee and associate dean of undergraduate studies in the College of Engineering, said the committee found that the current undergraduate curriculum serves Penn State students well in many ways. "However, we did find opportunities to make some improvements and better serve our students. I think that we're going to be able to create a proposal that the faculty will support, and that has high potential for successful implementation."

The committee has agreed on many issues, including:

- the University-wide use of first-year seminars, with built-in flexibility for the different colleges;
- the integration of key competencies (writing, speaking, quantitative skills, information retrieval, problem-solving, teamwork, intercultural and

international competency) into general education courses;

- a restructured health sciences requirement;
- more opportunities for placing out of courses;
- a process for continuous assessment;
- a refinement of the cultural diversity dimension; and
- incorporating second languages as a general education option.

Since the end of last year, the committee has been receiving input on a working document that spelled out principles and draft recommendations for Penn State's general education program (*Intercom*, Sept. 19, 1996). Using feedback from faculty, students and alumni, committee members have made substantial revisions to the basic plan.

The committee's work toward a final report is fairly far along, but committee members continue to encourage and accept input. The committee plans to work through the summer on crafting its final proposal and bring it to the Senate for consideration early in the fall semester.

Spring Commencement ceremony schedule set

Penn State will hold 1997 Spring Commencement ceremonies at all 23 campus locations the weekend of May 16 for 839 associate, 5,405 baccalaureate and 1,320 graduate degree students — a total of 7,564 graduates systemwide, including 108 medical students.

At the University Park campus, 38 students will graduate with associate degrees, 4,758 with baccalaureate degrees, 890 with master's degrees and 207 with doctorates, for a total of 5,893 graduates. Each college at University Park will hold its own ceremonies.

Friday, May 16:

■ 3 p.m.: The ROTC Commissioning Ceremony in Schwab Auditorium. ROTC faculty representative will be Col. Robert D. Phillips, USAF, professor of aerospace studies; Capt. Grant G. Ziebell, USN, professor of naval science; Lt. Col. William E. Haner, USA, professor of military science.

■ 4:30 p.m.: University Scholars Medals Ceremony for graduating seniors in Eisenhower Auditorium. **James Rambeau**, director of the University Scholars Program, will speak.

■ 5 p.m.: Graduate School Ceremonies in Eisenhower Auditorium. **Jules B. LaPidus**, president of the Council of Graduate Schools, will speak. LaPidus was appointed associate dean for research in The Ohio State University's graduate school in 1972, and two years later became the school's dean and vice provost for research.

■ 8 p.m.: The College of Education in Eisenhower Auditorium. **John L. Braxton**, judge of the Commonwealth of Pennsylvania, will speak. Braxton earned his bachelor's degree from Penn State in 1966. He graduated from the Howard University School of Law in 1971 with a juris doctorate degree;

in 1981, he was appointed to the Common Pleas bench by Gov. Thornburgh. Judge Braxton is an adjunct professor in the School of Business and Management at Temple University and has taught in the master's program in criminal justice at St. Joseph's University.

■ 8 p.m.: The College of the Liberal Arts in The Bryce Jordan Center. **James Balog**, retired chairman of Lambert Brussels Capital Corp. and 1838 Investment Advisers, will speak. Balog received his bachelor's degree from Penn State in 1950 in premedicine.

Saturday, May 17:

■ 9 a.m.: The Eberly College of Science in The Bryce Jordan Center. **James Balog**, retired chairman of Lambert Brussels Capital Corp. and 1838 Investment Advisers, will speak. Balog received his bachelor's degree from Penn State in 1950 in premedicine.

■ 9 a.m.: The College of Agricultural Sciences in Eisenhower Auditorium. **Joseph E. Kunsman Jr.**, director of academic programs, agriculture and natural resources at the National Association of State Universities and Land-Grant Colleges, will speak. Kunsman graduated from Penn State with a bachelor's degree in dairy science. He earned his master's and doctoral degrees from the University of Maryland.

■ Noon: The College of Health and Human Development in The Bryce Jordan Center. **Mark A. McCamish**, medical director for Abbott Laboratories, will speak. McCamish has degrees in exercise physiology, ergonomics, human nutrition and medicine. He holds an academic appointment as a clinical associate professor in the Department of Internal Medicine at The Ohio State University and maintains a clinical practice.

■ Noon: The College of Arts and Architecture in Eisenhower Auditorium. **Joseph Riley**, mayor of

Charleston, S.C., will speak. Riley is credited with spurring the revival of Charleston, despite \$2 billion in damage from Hurricane Hugo and the closing of the Navy base that was the city's largest employer.

■ 3 p.m.: The College of Engineering in The Bryce Jordan Center. **Bennett Levin** will speak. Levin earned bachelor's degrees from Penn State in liberal arts ('61) and industrial engineering ('65). His national consulting practice, Consulting Mechanical and Electrical Engineers, is based in Philadelphia.

■ 3 p.m.: The College of Communications in Eisenhower Auditorium. **Elizabeth Fetter**, president of Pacific Bell's Industry Markets Group, will speak. Fetter is a 1980 graduate of Penn State. She earned her master's degree with honors in industrial administration and public policy from Carnegie Mellon University.

■ 6:30 p.m.: The Smeal College of Business Administration in The Bryce Jordan Center. **Kurt Landgraf**, chief financial officer of DuPont, will speak. Landgraf earned a bachelor's degree in economics and business administration from Wagner College. He earned three master's degrees: one in economics from Penn State; a second in administration from Rutgers University; and a third in sociology from Western Michigan University. Landgraf graduated from the Harvard Business School advanced management program in 1992. He is co-chair of the board of the DuPont Merck Pharmaceutical Co.

■ 6:30 p.m.: The College of Earth and Mineral Sciences in Eisenhower Auditorium. **John A. Dutton**, Penn State's dean of Earth and Mineral Sciences, will speak. Dutton has served as dean of the college since 1986.

University Park construction update



Photos: Greg Gneco

Change is in the air

Gov. Tom Ridge will be at Pattee Library on the University Park campus on April 25 to participate in the official groundbreaking ceremony. Preliminary sitework already has begun for the addition of the Paterno Library, as seen in the photo at the right. According to the construction Web site, interior work may begin sooner than expected, with the contractor nearly ready to build interior walls to cover the glass window-wall that will be removed in East Pattee and to cover the windows along the north wall of the LLAS Terminal Room (C102). The first and fourth floors in East Pattee and room C102 will likely be the first areas to receive work. For updated information, check the Web at <http://www.libraries.psu.edu/pubinfo/construction/>.

In addition, work will soon begin on the Hetzel Union Building, above. Renovations to the HUB will add 95,000 square feet to the building's existing 154,000 square feet. The new Paul Robeson Cultural Center will be integrated into the complex. The groundbreaking ceremony for that project will be May 2.



The ARTS

AT PENN STATE



He writes the songs

Barry Manilow will play at The Bryce Jordan Center on the University Park campus July 18. Tickets are on sale now at \$39.50 and \$29 for reserved seating.

End-of-year performance

The Penn State Concert Choir and Chamber Singers will present their final performance of the season at 8 p.m. Friday, April 25, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus. The ensembles, under the direction of **D. Douglas Miller**, professor of music, will sing a varied repertoire.

A special feature of Friday's concert will be the inclusion of performances by five different small vocal ensembles from within the 44-member Concert Choir.

Tickets are \$4.50 for the general public; \$2.50 for students, and may be purchased at the School of Music Office, Monday through Friday, from 8 a.m. to 5 p.m., or at the door on the evening of the performance.

Blue and White concert

The Penn State Glee Club will present the annual Blue and White Concert at 8 p.m. Saturday, April 26, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

In addition to sea chanteys, drinking songs and American folk songs, the concert also will feature the Hi-Lo's, Penn State's oldest a cappella singing group.

Tickets are \$4 for the general public; \$2 for students and children, and will be available at the door.

Oriana Singers concert

The Oriana Singers will present their spring concert at 2 p.m. Sunday, April 27, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

The 65-voice choir, conducted by **Lynn Drafall**, assistant professor of music education, will begin the concert with the music of Schubert and Brahms. The second half of the program will feature music based on children's literature.

Tickets are \$4 for adults; \$2 for students, and will be available only at the door before the performance.

University Choir concert

The Penn State University Choir will present a spring concert at 4 p.m. Sunday, April 27, in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

The theme *Sing and Celebrate* will feature settings of early American hymns, sacred and secular works of Johannes Brahms and selections by African-American composers.

Sine Nomine, the chamber ensemble from University Choir, will per-

form several arrangements of popular songs and folk music. **Anthony T. Leach**, assistant professor of music, is conductor of the University Choir.

Tickets are \$4 for non-students; \$2 for students, and may be purchased in advance through the School of Music Office at (814) 865-0431, or at the concert. For more information, please call Leach at (814) 865-6521.

Odyssey Through Literature

On the April 27 episode of *Odyssey Through Literature*, fiction writer **Charlotte Holmes** reads and discusses her latest work, *Gifts and Other Stories*, with host **Leonard Rubinstein**. She chose the story *Gifts* to title her collection, she explains, because gifts are a recurring theme throughout all of her stories.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WPSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://mickey.la.psu.edu/complit/odyssey/odyssey.htm>.

Bach's Lunch

The Penn State Double Reed Ensemble, directed by **Timothy Hertz**, assistant professor of music and oboe instructor, will perform at the free **Bach's Lunch** concert at 12:10 p.m. Thursday, May 1, in the Helen Eakin Eisenhower Chapel on the University Park campus. The 20-minute concert is part of the **Bach's Lunch** series sponsored by the College of Arts and Architecture and the University Lutheran Parish.

The Double Reed Ensemble is a newly-formed group of 10 undergraduate music and non-music majors.

Audience members may take bag lunches to eat after the concert in the Roy and Agnes Wilkinson Lounge. Coffee and tea will be provided.

Penn State Concert Band

The Penn State Concert Band will present its 21st annual spring concert on Thursday, May 1, at 8 p.m. in the College of Arts and Architecture's School of Music Recital Hall on the University Park campus.

The band is conducted by **O. Richard Bundy**, director of the Penn State Blue Band and associate professor of music education in the School of Music. **Stacey Phillips**, a music education doctoral candidate in the School of Music, will assist. Director of Concert Band at Penn State is **Dennis Gloske**.

The concert is free to the public.

Passover exhibit

The Kern Graduate Building flat and tall cases feature a special exhibit "The Passover Haggadah — a Jewish Cultural Phenomenon," through May 18.



BRYCE JORDAN CENTER

Upcoming events

■ **April 19:** World Wrestling Federation, 8 p.m.

Tickets: \$18, \$15, \$11 for reserved seating, on sale now.

■ **April 28:** Steven Curtis Chapman, with audio adrenaline and Carolyn Arends, 7:30 p.m. Tickets: \$20, \$24.50. Group discounts are available.

■ **May 3, 4:** The Royal Hanford Circus, 2 and 7 p.m. both days. Tickets: \$13 and \$11 for adults; \$11 and \$9 for children 12 and under. Group rates are available.

■ **May 6:** No Doubt, with CIV and The Vandals, 7:30 p.m. Tickets: \$21.50 for reserved seating and general floor admission

■ **May 16, 17:** Commencement Times: Friday, 3 and 8 p.m.; Saturday, 9 a.m., noon, 3 and 6:30 p.m.

For more information call (814) 863-8500 or (814) 863-6357.

■ **June 12-14:** Preview '98 regional trade show Times: Thursday, 5-8 p.m.; Friday, 10 a.m. to 7 p.m.; Saturday, 10 a.m. to 7 p.m.

For booth information call (814) 863-1570

■ **July 18:** Barry Manilow Tickets: \$39.50 and \$29 for reserved seating, on sale now.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc-psu.edu>.

The exhibit, which commemorates the exodus of the Hebrew nation from slavery in Egypt, is from the personal collection of **Richard Goldstein**. The collection was amassed from around the world and in addition to Hebrew, is written in several other languages including Greek, Russian and Swedish.

The Kern Exhibition Area is on the first floor of the Kern Graduate Building on the University Park campus. Hours are 8 a.m. to 11 p.m., Monday through Friday; 10 a.m. to 11 p.m. Saturday; and noon to 11 p.m. Sunday.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Saturday, April 26

Robin Seymour on "The Stieglitz Circle," 2 p.m., Palmer Museum of Art.
"Glee Club Blue and White Concert," Bruce Trinkley, director, 8 p.m., Recital Hall. For tickets, phone (814) 865-0431.
Lisa Cerami, student recital, piano, 8 p.m., 122 Music II.

Sunday, April 27

"Singing Lions," Peter Kiefer, director, 2 p.m., Eisenhower Auditorium. For tickets phone (814) 865-0431.
"Oriana Singers," Lynn Drafall, director, 2 p.m., Recital Hall.
"University Choir," Anthony Leach, director, 4 p.m., Recital Hall (814) 865-0431.

Kyle Glaser and Sue Kearney, student recital, saxophone, 8 p.m., Recital Hall.
Jeanne Nagurny, graduate lecture/recital, voice, 8 p.m., 122 Music II.
Charlotte Holmes, fiction writer, "Odyssey Through Literature," 6:30 p.m., WPSU, 9:15 P.M.

Monday, April 28

Steven Curtis Chapman with special guests audio adrenaline and Carolyn Arends, 7:30 p.m., The Bryce Jordan Center.
Ivan Hodge, student recital, violin, 8 p.m., Recital Hall.

Tuesday, April 29

Denise Deegan's "Dolls Pulls It Off," Helen Mantel, director, 8 p.m., The Playhouse, through May 3. For tickets, phone (814) 865-0255.

Wednesday, April 30

"Singin' in the Rain," 8 p.m., Eisenhower Auditorium. For tickets, phone (814) 865-0255.
Symphonic Wind Ensemble, Dennis Glocke, conductor, 8 p.m., Recital Hall. For information, phone (814) 865-0431.

Thursday, May 1

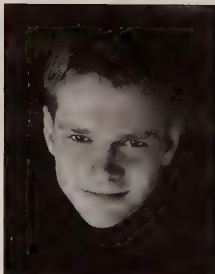
Bach's Lurch, The Penn State Double Reed Ensemble, 12:10 p.m., Eisenhower Chapel.
Concert Band, O. Richard Bundy, conductor, 8 p.m., and Collieen.

Friday, May 2

Scott Davis and Colleen Cochran, student recital, clarinet, 8 p.m., Recital Hall.

Saturday, May 3

Catherine Ciferri on "American Watercolors at



Coming soon

Singer Steven Curtis Chapman will be joined by audio adrenaline and Carolyn Arends at 7:30 p.m. Monday, April 28, at The Bryce Jordan Center on the University Park campus. Tickets are \$20 and \$24.50.

the Palmer Museum," 11:30 a.m., Christofers Lobby, Palmer Museum of Art.
The Royal Hanneford Circus, 2 and 7 p.m., The Bryce Jordan Center, through May 4.
Celia Toth, graduate recital, piano, 8 p.m., Recital Hall.

Sunday, May 4

Chamber Music Recital, 7 p.m., 122 Music Building II.

SEMINARS

Friday, April 25

Alexander Pines on "Gauge Kinematics of Spins and Cats," 12:15 p.m., S-5 Osmond Laboratory.

Megan Henry on "Impact Theory for Rydberg Atom Transient Line Shapes," 2:30 p.m., S-5 Osmond Laboratory.
Illa Dichev on "Is the Risk of Bankruptcy a Systematic Risk?" 3:30 to 5 p.m., 333 Beam Business Administration.

Saturday, April 26

Karl Kimmerling on "Profitable Growth Through Teamwork and Technology," 11

a.m., 112 Walker.

John T. Ryan III on "Business in the '90s: A Contrarian View," 4 p.m., 22 Deike.

Monday, April 28

Ranee Bryniski on "Keebler Quantization of Phase Space with Elementary Symmetry," 2 p.m., 339 Davy Laboratory.
Diptman Sen on "Density Matrix Renormalization Group for Antiferromagnetic Spin Chains," 3:30 p.m., 339 Davy Laboratory.
Gita Talmadge on "The Effects of Magnetic Fields on Electrically Conducting Fluids: An Introduction for Terrestrial Applications," 3:35 to 4:25 p.m., 215 Hammond.

Tuesday, April 29

Gerard Bond on "Millennial-Scale Climate Variability During the Holocene. Last Glaciation and Last Interlaciation in the Subpolar North Atlantic — Ice Sheet Versus Ocean — Atmosphere Forcing," 4 p.m., 112 Walker.

Mary Carrington on "Genetic Resistance to HIV-1," 4 p.m., 8 Mueller Laboratory.

Harry Dawson on "The Effects of Vitamin A and Aging on Immunity," 4 p.m., S-209 Henderson.

Wednesday, April 30

Gary L. Gray on "Nonlinear Spacecraft Attitude Dynamics," 3:35 p.m., 215 Hammond.
Kristen Robinson on "The Effect of Educational Attainment on Mortality Rates and Cause of Death Structures," 12:15 to 1:15 p.m., The Living Center, 110 Henderson.

Thursday, May 1

Paul Chaikin on "Hard Spheres in Space: Colloidal Crystals in Microgravity," 3:30 p.m., 101 Osmond Laboratory.

Friday, May 2

Amartya Bhattacharya on a subject to be announced, 3:30 p.m., 339 Davy Laboratory.

CONFERENCES

Monday, April 28

"Ethics in University Research and Education," 9 a.m. to 1 p.m., The Nittany Lion Inn.

Better Process Control School, Nittany Lion Inn, through May 1.
Advanced Police Experience Development,

The Penn State Scanton, through May 9.

Short Course in Powder Characterization, The Nittany Lion Inn, through May 1.
Advanced Capillary Gas Chromatography, The Penn State Scanton, through May 2.

EXHIBITS

HUB Art Alley Panels

Oil and print exhibit by Amy Jane Whitney and Darren R. Grier, through May 4.

HUB Browning Gallery

"Photographs of Australia" by Richard Wolkstein, through April 27.

HUB Formal Gallery

Mixed media works by Howard Brooks, through May 4.

HUB Sculpture Corner

"American Gothic Revisited" by Richey, through May 21.

Kern Exhibition Area

Sketches titled "Shalom," through May 22.

Kern Tall and Flat Cases

"The Passover Hagaddah" — A Jewish Cultural Phenomenon, through May 18.

North Halls

Paintings by Jodi Ruffner, through April 30.

Palmer Museum of Art

"Capturing the Light: A Selection of 19th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 8.

"Exotic Illusions: Art, Romance and the Marketplace," through June 15.

Zoller Gallery

"MFA Theses Exhibitions," ceramics by Danielle Morlier and Rebecca Wostrel, through April 28.

"MFA Theses Exhibitions," drawings/paintings by Carol Peebles and Greg Stadler, May 1-10.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL: <http://cac.psu.edu/calendar>

APRIL 25 - MAY 4

Working together at Berks to aid people with disabilities

Students at Penn State Berks campus are doing more than just hitting the books these days. They're joining forces to create a keyless entry to an apartment controlled by someone with a disability; designing an alarm to tell someone with impaired mental capabilities when food has been on the stove too long; and adapting a small electric car for a 4-year-old boy with cerebral palsy who has no function of his feet and very little function of his arms.

These are some of the projects that engineering technology, engineering and occupational therapy assistant classes have been working on. They will present their projects at 7 p.m. Thursday, May 1, in the Perkins Student Center Theatre at Berks campus. The presentation is free.

Henry Ansell, assistant professor of engineering, and Kelly Hennessey, lecturer in education, have coordinated this joint effort. Some of Hennessey's occupational therapy assistant students designed and constructed therapeutic devices which they will use in their field. Ansell asked his second-year engineering students to design and construct devices in collaboration with Hennessey's students.

The senior engineering technology students worked on three term projects with input from a Reading Rehabilitation Hospital therapist, an Office of Vocational Rehabilitation counselor and the parents of the 4-year-old boy with cerebral palsy.



Real-life applications

Penn State Berks campus students Gary Lefever, left, Russ Kuhns, Ron Weachock and team captain Bruce Smith work on an electric car for a 4-year-old boy with cerebral palsy.

PennDOT gives University funds for airport

The runway at the University Park Airport will receive a much-needed facelift, courtesy of a grant from the Pennsylvania Department of Transportation. Pennsylvania Deputy Secretary of Transportation Liz Voras recently presented a check for \$8,000 to airport manager Robert Dannaker as part of PennDOT's continuing commitment to upgrade Penn State's airport facilities. The money will fund new pavement painting equipment and contracted work to seal runway cracks.

"Over the past several years, PennDOT has contributed more than \$2.65 million to the University Park Airport for capital improvements and maintenance," said Robert Finley, assistant to the vice president for business and operations who oversees airport issues. "This grant will help us get maximum life out of our facilities."

PennDOT provides about 5 percent of all funding for the University Park airport. Traffic over the past 10 years has increased steadily at about 6.5 percent to 7 percent a year, making regular pavement maintenance a high priority.



Here's an example

Increased traffic has taken its toll on the University Park Airport runway. Robert Dannaker, airport manager, points out some surface cracks that will be sealed using money from a Pennsylvania Department of Transportation grant.

Photo: Greg Grieco

Applications sought for Department of Pathology chair

Applications are invited for the position of chairperson, Department of Pathology, College of Medicine.

Candidates should be nationally recognized scholars in pathology with an outstanding record of research and teaching, a proven record of collaboration with other medical specialists, leadership in appropriate professional organizations and productive administrative experience in an academic health center.

The successful candidate will be expected to provide imaginative direction for current and future pro-

grams to advance the missions of the College of Medicine and the Penn State Geisinger Health System, while promoting the national stature of the department.

Applications should be sent to: Office of the Senior Vice President for Health Affairs and Dean, The College of Medicine, The Milton S. Hershey Medical Center, P.O. Box 850, Hershey, Pa. 17033.

Penn State is an affirmative action, equal opportunity employer.

Professional Women announces new officers

New officers for 1997-98 have been named for the grass-roots group Professional Women at Penn State. They are Jean Brooks, chair; Anne Stokes, treasurer; Jean Barczak, chair-elect; and Linda Spangler, treasurer-elect. Professional Women at Penn State is coordinated by University women and encourages participants to develop and maintain a communications network. It also serves as a resource for other Penn State women.

Brooks came to Penn State in 1984, as a wage payroll clerical staff in the compliance office; eventually she advanced through various full-time positions to her current post as office manager for the Student Services Center in the College of Health and Human Development.

In 1995, she was recognized with an award for her extraordinary contribution to the productivity of the Sponsored Programs Office. Her position as chair of the organization begins this June.

Stokes came to Penn State in 1989 from Arlington, Texas, where she was a proposal specialist with Imaginering Systems Corp. and attended the University of Texas at Arlington. She began as a part time secretary for the Center for East Asian Studies. She accepted a full-time position in the Department of Chemistry in January 1990. She moved to the Department of Human Development and Family Studies in October 1993 where she serves as an accounting assistant.

Barczak has lived in State College since 1973. She was a typelist for J.C. Penney and owned two businesses before coming to Penn State. She started part time in women's studies in 1989. She accepted a full-time position in development for the Commonwealth Campuses. In 1990, she returned to women's studies as the only full-time staff until 1994. She was elected to a three-year term with Professional Women in 1996 and chair-elect in January 1997.

Spangler began her career at Penn State as a receptionist in the political science department in 1982 and in 1983 was promoted to the undergraduate secretary position. She was promoted to the graduate secretary position in Economics in 1984 and stayed in that position until 1991, when she was promoted to administrative assistant.

In 1996, she received the College of the Liberal Arts Outstanding Staff Award.

The group, which welcomes attendance by both females and males in all job and student classifications, is currently accepting applications for leadership positions on its coordinating council. Applications must be submitted by May 20. For more information, or to receive a brochure and application form, please contact Anne Stover, 303 Delke, University Park, (814) 865-6393.

Penn State's largest college seeking dean

A search committee has been appointed to identify candidates for the position of dean of the Commonwealth College. John G. Bruhn, provost and dean of Penn State Harrisburg, is committee chair.

The dean of the Commonwealth College serves as principal academic leader and chief executive officer of the college and reports directly to the executive vice president and provost of the University. The dean is responsible for planning, budgeting, implementation, fund-raising and for the quality of teaching and research in the Commonwealth College.

The Commonwealth College, which is the University's largest college, consists of 12 campuses: Beaver, Delaware County, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Shenango, Wilkes-Barre, Worthington, Scranton and York. The Commonwealth College provides instruction and research opportunities, primarily at the undergraduate level. The college had a total credit enrollment of 14,050 students for the Fall Semester 1996. A full-time equivalent faculty and staff of 1,300 people serve the college, supported by a budget of approximately \$60 million.

The position of dean requires an individual who can lead effectively and manage a large and complex college that is geographically distributed. Candidates are expected to have significant academic achievement, preferably with credentials appropriate for a tenured appointment at the rank of professor. The candidate should have a thorough familiarity with the philosophy and responsibilities of a large, research-oriented, land-grant institution. Prior experience in academic administration with responsibility for personnel, programs and/or resources is required. Salary will be commensurate with experience and qualifications.

Nominations, applications and inquiries should be submitted to Bruhn, chair of the Search Committee for Dean of the Commonwealth College, The Pennsylvania State University, 201 Old Main, Box PSI, University Park, Pa. 16802. The search committee will review applications and nominations beginning June 1, and will continue to receive them until the position is filled. In addition to a paper copy, the search committee would be pleased to receive your applications or nominations that include a full vita on a Word or WordPerfect formatted diskette, or by e-mail sent to PSUSEarch@psu.edu. You can find more information on the Commonwealth College on the World Wide Web at <http://www.ces.psu.edu/>



Checking the specs

Students in James Kalsbeek's Architecture 132 class review designs for their semester projects. The students are building wood benches, gazebos and other structures and displaying them around the University Park campus. Although the class concentrates on design and not construction, the projects give the students a chance to see the entire architectural process, from design to prefabrication, construction and finally demolition.

Photo: Greg Grieco

Mysterious wooden sculptures are returning to University Park

Structurally stunning, often odd in form, they're popping up overnight, at places around the University Park campus in the final weeks of spring semester. Often lingering until the Central Pennsylvania Festival of the Arts in July, the structures of wood at times sprawled as large pavilions, but in some years were smaller. Looking unfinished and fleeting, the structures will disappear as quickly as they came, leaving only a memory of surprise.

People familiar with the campus know the wooden structures crop up each spring — benches, gazebos, elaborate huts — but do you know why? The forms are designed and built by freshman students as part of their design studio taught by a team of teachers from the Department of Architecture: Howard Lawrence, assistant professor of architecture; Doug Hoffmann, graduate assistant; Mike Jentrud, instructor in architecture; and James Kalsbeek, associate professor of architecture and coordinator for the class.

"The class is foremost a design class, not a construction class, although construction is part of it," Kalsbeek said. "This is the first opportunity for students to design something and have it realized in the 'real world.' The thrill of building something real that you've designed is important and gratifying because, as young architects, that may be a long time coming."

The "campus stations," as Kalsbeek refers to the project, began six years ago as an attempt to get first-year students to cooperate in designing and building structures. The result so



Just a sample

This is a scale model of one of the wooden structures that will soon grace the University Park campus.

Photo: Greg Grieco

that architecture has always had a tradition of enlightened patronage. Students invest their own money in the materials for the projects, and Kalsbeek sees the purchase offers as possible reimbursement.

Sure to spring up in the next few weeks across campus, inquiries on purchasing the structures can be made to Kalsbeek at jk3@emil.psu.edu. As for what to expect, know only that they are suddenly appearing to challenge and arouse, to offer a place to sit and to provide an image for us to consider.

interested people and motivated the students that Kalsbeek sought to repeat the exercise. After four consecutive years, Kalsbeek senses a tradition beginning, and people now expect the curious, unusual pieces to appear each spring.

For the first two years, only three or four structures were built by teams of 10 to 15 students. The structures, employed as pavilions, were built on site, too cumbersome to move easily and prone to the difficulties of large group dynamics. In the last two years, the approach changed to smaller groups and more structures. The structures must be prefabricated for easy construction and easy relocation. Finally, the teams are now three or four students strong with everyone participating equally in aspects of design, prefabrication, construction and demolition.

"The projects have really generated a lot of interest," Kalsbeek said. "In past years, people from the campus and community have purchased them and relocated them as garden structures in their backyards."

Offers are made on the structures every year, and Kalsbeek, smiling, said that architecture has always had a tradition of enlightened patronage. Students invest their own money in the materials for the projects, and Kalsbeek sees the purchase offers as possible reimbursement.

CQI

CONTINUOUS
QUALITY
IMPROVEMENT

Focus on core processes

"Identifying Core Processes," a CQI panel discussion, will be held from 3:30 to 5 p.m. Thursday, May 1, in 106 Mitchell Building. It will focus on how, through the identification of core processes, you can better focus your time, energy and resources for improvement. Panelists are: Linda Angell, assistant professor of operations management, The Smeal College of Business Administration; William Anderson Jr., assistant vice president for physical plant; Steve Kreiser, coordinator, Management Engineering Services, Office of Human Resources; and moderator, Barbara Sherlock, CQI Specialist, HRDC and Center for Quality and Planning. Panelists will share experiences about critical tasks in the improvement process. Topics include:

- Key questions to ask in identification and analysis of core processes; and

- The relationship between core processes and strategic planning.

Anyone interested in attending this free event, contact HRDC at (814) 865-8216 and ask to register for CQI 056.

A quality "thank you"

A giant "thank you" is extended to members of the Quality Expo '97 planning team who spent countless hours working to make this year's Expo a huge success: Ann Alters, Jean Barrett, Larry Burton, David Dimmick, Alan Friedrich, Judy Hewes, Linda Klimczyk, Clare Kristofco, Fred Loomis, Monica Nachman, Sue Oram, Mike Poorman, Barbara Sherlock, Larry Spence, Karen Wagner, Ellen Walker and Betzy Wilson. Members will be honored at a luncheon with Provost John A. Brighton on April 24.

For more information about Continuous Quality Improvement, please contact Louise Sandmeyer, executive director of the Center for Quality and Planning, at (814) 863-8721, LEST@PSU.EDU or see the center's Web site at <http://www.psu.edu/president/cqi>.

Breazeale Nuclear Reactor gains new research equipment

"Hey, where did all the water go?" This is a question the Breazeale Nuclear Reactor's interim director, **Warren F. Witzig**, is asked frequently these days. The water that had filled the reactor pool has been transferred to a large storage tank on the south side of the reactor building. Actually, only half of the pool has been drained. The other half contains water which is separated from the drained portion of the pool by a large gate. The pool covers the core of the reactor, which is about 30 inches high and 30 inches wide at its greatest width.

The pool has been drained to install several pieces of research equipment to enhance the ability of the reactor to serve the educational and research needs of the University community. Restoration of full-scale operation is expected about May 1.

At the same time a major installation has taken place in the hot cells, a well-shielded small room with remote manipulators, to determine the stress-corrosion characteristics of irradiated metals for the U.S. Navy. These tests are unique as they are done at high temperature and pressure in special autoclaves.

The Breazeale reactor, designated a Nuclear Historic Landmark, is the oldest, continuously operating university



Upgrade in progress

The Breazeale Nuclear Reactor on the University Park campus, above, is undergoing some renovations to its reactor pool, right. The reactor is located on Hastings Road between University and Bigler roads.

Photos: Greg Grieco

research reactor in the United States. Every year between 20 and 30 University departments, including engineering, biology, anthropology, geosciences and food science, use the reactor for research and education purposes. For example, geoscientists who want to determine the trace elements in minerals would turn to the Breazeale facility to perform nuclear activation analysis.



Faculty/Staff Alerts

Upcoming HRDC courses

Call the Human Resource Development Center at (814) 865-8216 to register for the following programs:

■ Designing and Delivering Oral Presentations

Learn the principals, skills and practice for creating powerful oral presentations from concepts to delivery. May 5, 8:30 a.m.-4:30 p.m., 319 Rider Building. Cost: \$65.

■ Conversational Spanish for Practical Situations

May 6, noon to 1 p.m., 504 Agricultural Science and Industries Building. Cost: \$65.

■ Creativity Unleashed: The Ultimate Tool

May 6, 1:30-4:30 p.m., 118 Agricultural Science and Industries Building. Cost: \$40.

■ Personal Goal Setting and Achievement

May 8, 9 a.m.-4 p.m., 319 Rider Building. Cost: \$55.

■ Maximizing Your Effectiveness in Times of Rapid Change

May 9, 1:30-4:30 p.m., 319 Rider Building. Cost: \$35.

Funding for projects on aging/elderly available

New and established researchers in aging are encouraged to apply to the Gerontology Center's Faculty Development Projects Program, which sponsors small, pilot studies or other research activities on adult development and aging. Projects can be funded up to \$4,000. May 15 is the deadline for submitting a proposal for funding in the following fiscal year.

The program supports developmental phases of faculty research projects to encourage faculty to submit proposals for external funding—for both basic and applied research activities.

Proposal reviews will be made by an interdisciplinary panel from the center's University-wide advisory board. For more information on this funding program, contact **Mark Hayward**, assistant director for social sciences, Gerontology Center, at (814) 865-1710.

Backbone service interruptions

The Office of Telecommunications has announced that backbone connectivity to University Park buildings that connect via the Pattee hub will be interrupted due to work required for the Pattee Library expansion.

The tentative schedule is below. On each given day, the following buildings will lose data backbone computing services. Backbone connectivity provides a path to other computers and printers at Penn State for accessing services from OAS and other host computers, as well as electronic mail and the Internet. Connectivity to Burrows, Pattee and Oswald will not be affected.

Although all attempts will be made to keep the outage to a minimum, please plan on the outages lasting from 8 a.m. to 5 p.m.

■ Tuesday, May 20: BAB 1, Carpenter, Cedar, Faculty Club, Keller, Kern, Moore, Nittany Lion Inn, Rackley, Recreation Building

■ Wednesday, May 21: Waring Hall

■ Thursday, May 22: Chambers

■ Friday, May 23: Arts, Eisenhower Chapel, Forum, Music.

Student Fulbright deadline

Applications for student Fulbright awards for 1997 are due by Sept. 10. Anyone interested in applying should contact **Mary Gage** in 312 Willard Building on the University Park campus, at (814) 863-8199 as soon as possible for application materials.

Disposal and purchase of University-owned equipment

Salvage and Surplus Operations reminds all faculty and staff members that, according to University Policy PC-10, the Salvage and Surplus Division is responsible for the collection and disposal of all University-owned equipment, supplies and/or materials that are obsolete, surplus or scrap. Departments must dispose of all such unwanted items only through Salvage and Surplus. Salvage will make

arrangements to pick up surplus items free-of-charge once the proper paperwork is provided.

The Salvage and Surplus store is open each Monday through Friday from 9 a.m. to 3 p.m. Selected equipment, fleet vehicles and surplus materials are available for sale to the general public. All items are priced by Salvage and Surplus and are sold on a first-come, "as is" basis. All sales are final and are handled on a cash or credit card basis. Vehicles must be paid for with cash or a certified check.

There also is a limited amount of storage space available for rent to University departments. For complete details and availability information, please call (814) 865-4371 during regular business hours, Monday through Friday.

New name

Two years ago, the readers of *LifeLine*, the faculty/staff health promotion newsletter, were asked to vote on a name for the programs sponsored by the faculty/staff health promotion division in the Office of Human Resources. Health Matters was chosen, and was subsequently used as the name of the division's main programming brochure. Now, the faculty/staff health promotion division has officially made the change to also have the division be recognized by the name Health Matters.

You can still find the Health Matters staff at Box 3 Rider Building, (814) 865-3085.

Job postings

The Staff Vacancy listing that is printed and distributed from the employment office is available on the Web. To print the file the user must have Adobe Acrobat installed on their machine. This document also assumes that the user is using a Web browser and is connected to the Internet or the Penn State backbone. Each Wednesday the file will be updated with the current week's postings. To get the file connect to <http://www.ohr.psu.edu/emplment/home.htm>. The link is titled "All PSU Vacancies for work area postings."

New clues to causes of morning sickness unveiled

By ANDREA ELYSE MESSER
Public Information

The same hormone that makes home pregnancy kits change color is significantly associated with and may be the cause of the nausea and vomiting of morning sickness, according to researchers.

"Higher human chorionic gonadotropin (hCG) levels are associated with an increased risk of experiencing pregnancy-related sickness during the first trimester of pregnancy," Kathleen A. O'Connor, a National Institute of Aging post-doctoral trainee at Penn State's Population Research Institute and research associate in anthropology, said.

Estrogen and progesterone do not appear to contribute significantly to pregnancy-related sickness," she said.

The hormone hCG reaches a peak, drops and levels off during the first trimester of pregnancy. This hormone is produced during pregnancy and serves to maintain necessary levels of progesterone for pregnancy until the placenta is developed enough to take over this duty.

Previous experiments have suggested hCG or, less strongly, estrogen and progesterone as the cause of at least first trimester pregnancy-related sickness, but many studies only looked at hormone levels once or twice during the pregnancy and don't control for the actual date during pregnancy when the sample was taken. The Penn State researchers are looking at data collected in



Kathleen A. O'Connor, a post-doctoral trainee at the Population Research Institute and anthropology research associate, is taking a closer look at specific hormones and their relationship to morning sickness.

Photo: Greg Grieco

Bangladesh from about 200 women who supplied twice weekly urine samples and answered questionnaires for from one to nine months.

"These preliminary findings are from 15 women who supplied samples for up to nine months," O'Connor said.

The researchers, who include O'Connor; Darryl Holman, post-doctoral fellow at the Population Research Institute; James Wood, professor of anthropology; and Ellie Brindle and Sue Barsom, anthropology graduate students, have looked at 779 samples so far.

Not all women experience pregnancy-related sickness, and not all preg-

nancy-related sickness is confined to the first trimester.

In the United States, the idea that morning sickness is a good thing, because it means the pregnancy is going well is widespread. However, not experiencing morning sickness does not foretell a miscarriage. Some women can have three perfectly normal pregnancies, yet experience nausea and vomiting during only one.

"What we have found in the Bangladesh data, however, is a link between pregnancy-related sickness and age," O'Connor said. "As women get older they tend to experience less pregnancy-related sickness. What also holds true is that many women over age 35

have a higher risk of fetal loss."

While many have made the connection between the absence of morning sickness and increased risk of fetal loss, O'Connor notes that those studies did not control for the age of the women.

The real connection is between the increased age of women and fetal loss and the increased age of women and a decrease in pregnancy-related sickness, not between pregnancy-related sickness and fetal loss.

Ultimately the researchers will look at how hormones, especially hCG, change with maternal age.

Their "Our study shows that a balance of nutrients is needed, based on the goals of training and nutrition."

The Penn State study involved 12 men in an exercise routine that included bench presses and jump squats. The study showed a positive correlation between dietary fat and both pre-exercise and post-exercise, resting testosterone levels.



Timely turf tips

Lawn care do-it-yourselfers can save some serious money by following a few tips from a turf specialist in the College of Agricultural Sciences.

"Dollar for dollar, fertilization does more to revitalize thin, weedy lawns than any other single management practice," said Peter Landschoot, associate professor of turfgrass science. "With more user-friendly products on the market, lawn fertilization has never been easier — provided you follow a few basic steps."

Landschoot said those steps are:

- Take a soil test to find out how much fertilizer and lime is needed. Kits are available for \$5 at Penn State Cooperative Extension offices throughout the state.

- Buy fertilizer on the basis of its quality, not the size of the bag or the price. Value depends on the amount and source of nutrients in the bag. Your soil test report will provide information on which fertilizer is best for your lawn.

- Spread the fertilizer with either a rotary or a drop spreader. Rotary spreaders are more practical for larger lawns, while drop spreaders are only suitable for small to medium-sized lawns.

- Fertilize lawns in mid-spring (late April or early May), late summer (around Labor Day) and late fall (around Thanksgiving). Never apply fertilizer during hot, dry weather in mid-summer. This can damage turf and make it more susceptible to summer diseases.

Avoiding moss

Landschoot also has tips to control moss on your lawn:

- Test the soil for nutrient content and pH. Soil test kits are available from your county cooperative extension office for a nominal fee. The test report will indicate how much fertilizer and lime to apply and when to apply them.

- If shade or moisture limit good turf growth, steps can be taken to correct the situation. Remove some trees or tree branches to increase sunlight and air circulation, or plant grasses that are adapted to shaded or moist areas.

- Attempt to eliminate moss with chemicals only after the limiting factors for good turf growth have been corrected.

- Remember, it took a long time for moss to take over your lawn, it will also take a long time to control it.

Diet imbalances can reduce testosterone and muscle strength

Imbalances in the diet can reduce levels of testosterone, a hormone necessary to increase the size and strength of muscles, a University study showed.

"Some people recommend high-carbohydrate, low-fat diets," said Jeff Volek, a University researcher. "While this diet has some advantages, high-carbohydrate intake at the expense of other nutrients such as fat may cause a drop in testosterone. The same is

true if there is too much protein in the diet and too few carbohydrates."

The effects of overtraining, combined with a low-fat diet, can compound the problem of low-testosterone concentrations, according to the *Sports Medicine Newsletter*.

"The public has come to believe that the lower the fat, the better in all circumstances," said William J. Kraemer, a member of the newsletter's editorial board and one of the study

News in Brief

Paid volunteers needed

Female volunteers (21-35 years old) are needed to participate in an ongoing study at the Laboratory for the Study of Human Ingestive Behavior in Henderson Building. The study involves reporting to the lab for 10 sessions between May and November. In each session, participants will be given all meals for three consecutive days. Each test meal will consist of a variety of commercially available foods. Volunteers must be normal weight, non-smoking, non-dieting, not pregnant and not using hormonal contraceptives. Volunteers must be eligible to use the health services provided at Ritenour Building. If interested, please call (814) 863-8482 between 9 a.m. and 1 p.m. and ask for Chris. Volunteers will be paid \$300 for completion of the study.

The principal investigator on this study is **B.J. Rolls**, professor of nutrition, biobehavioral health and behavioral sciences.

Reception to celebrate program

The Department of Human Development and Family Studies will hold a reception from 4:30 to 5:30 p.m. Monday, April 28, in S101 Henderson (the Living Center) to celebrate the first full year of the Penn

State-Friedrich Schiller University of Jena faculty and student exchange program and to meet current exchange students from Jena who are completing their stay at Penn State.

Six months free aerobic training

The Center for Sports Medicine is recruiting women with no prior weight training experience aged 18-32 for a training study to begin August 1997. Benefits include: extensive medical and fitness testing as well as nutritional and fitness consultation. Call (814) 865-7107. The principal investigator on this study is **William Kraemer**, professor of applied physiology.

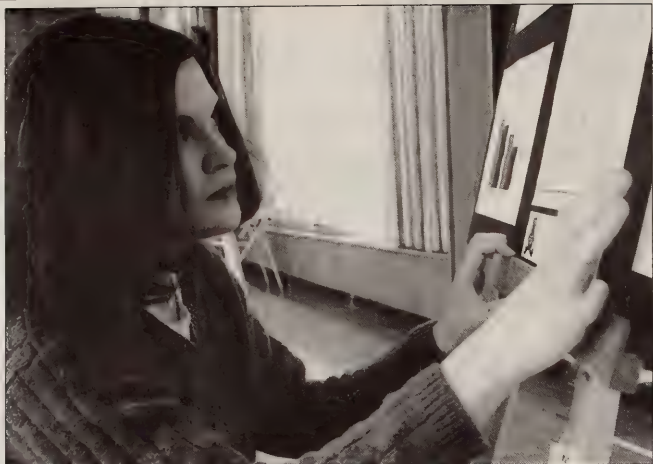
Penn Staters

Elizabeth Hanley, assistant professor of kinesiology, was an invited guest of the 1997 British Olympic Academy at Loughborough University to conduct a Greek dance workshop.

Jeanne Krochalis, associate professor of English at the New Kensington campus, presented a paper on medieval English historical tablets on display in churches at a conference on *The Culture of the Book in the Middle Ages and Renaissance*, at the University of Western Ontario, Canada.

For the Record

In a story on page 10 of the April 10 issue of *Intercom*, the residence of philanthropist Kay Logan was incorrect. Kay Logan resides in Alexandria, Va.



Setting up

Kristina Birdsall, an undergraduate student in human development and family studies, puts the finishing touches on her presentation of "When Fathers Help Working Mothers" for the Undergraduate Research Fair. The fair, which showcased 87 undergraduate research projects, was held at University Park campus April 14-15. A number of students who participated in the fair also will display their research at the National Conference on Undergraduate Research at the University of Texas at Austin today through April 26.

Photo: Greg Grieco

Intercom readership survey is in the mail

To help gauge how well the *Intercom*, the faculty/staff newspaper of Penn State, is meeting its goals to educate and inform the University community, we are conducting a survey of our readers. This week, the survey is being sent through campus mail to 2,500 readers who were randomly selected from our mailing list. Readers selected should receive the survey by April 28. The short, two-sided questionnaire should take less than 10 min-

utes to complete and an addressed, return envelope is included for your convenience.

Every week during the academic year, more than 22,000 *Intercoms* are printed and mailed to employees, legislators, friends and retirees of Penn State. This survey is just one of the many steps being taken this year to improve communication efforts at the University. The results of this survey

could be used to reshape the way news is delivered.

If you are one of the 2,500 selected to participate in this survey, please be sure to fill out and return your survey. The staff of *Intercom* values your opinions and comments about our publication.

Anyone with questions about the survey may contact **Lisa M. Rosellini**, editor, at (814) 865-7517 or by e-mail at lmr8@psu.edu.

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Robeson Cultural Center celebrates 25 years

Center flourishes as place where all feel welcome

For 25 years, the Paul Robeson Cultural Center has made an indelible mark on the University Park campus. What began as a USO building on an Army base in Lebanon, Pa., was transferred piece-by-piece in 1948 to its present site on Shortridge Road. It became the Temporary Union Building until the present Hetzel Union Building opened in 1955.

In 1972, the building, by then known as Walnut Building, officially became the Black Cultural Center and after major renovations was renamed the Paul Robeson Cultural Center in 1984 for Paul Robeson (1898-1976), singer, actor and civil rights activist.

Despite being scheduled for demolition several times, the building has become a powerful cultural core for two generations of minority students and a place where the whole Penn State community participates in and celebrates the accomplishments of nationally recognized artists, writers and politicians such as *Roots* author Alex Haley; politician Jesse Jackson; writer and poet Nikki Giovanni; musician Gil Scott-Heron and the musical group Earth, Wind & Fire. Today the center hosts more than 500 events a year.

The center will begin another metamorphosis on Friday, May 2, when it celebrates both its 25 years of service at its current location and the groundbreaking for a new center (see story on page 2) as part of the HUB/Robeson expansion and renovations.



Quite time

The Paul Robeson Cultural Center (in the background) has served as the cultural core for two generations of Penn State students. The center is celebrating 25 years of existence this year.

Photo: Greg Grieco

"When the project is completed in 1999, we will have a 21st-century building," Lawrence Young, director of the center, said.

The new Robeson Center will have 12,000 square feet of flexible space in three stories, advanced audio-video capabilities in its meeting rooms and a 425-seat auditorium — a far cry from the current facility, which in recent years has been bursting at the seams. For Young, the groundbreaking for the new center makes a strong statement about its permanence and the impor-

See "Robeson" on page 2

Penn Stater named to 1998 shuttle mission

By LISA M. ROSELLINI
Public Information

As a boy, James Pawelczyk's two most prized possessions were his insect collection and a tattered newspaper clipping of astronaut Alan Shepard's 1961 fling into space — the first American to enter that elusive realm. The way Pawelczyk sees it, being selected to fly on a shuttle mission must have been his destiny.

Pawelczyk, assistant professor of applied physiology and kinesiology in the College of Health and Human Development, has been named by NASA as one of two payload specialists who will fly aboard the Space Shuttle Columbia. He will be the first Penn State faculty member in space.

See "Shuttle" on page 10

University scientist discovers new planet

Scientists from several different institutions — including Penn State — have discovered a giant, Jupiter-like planet orbiting a star in the constellation Northern Crown. The newly discovered planet offers additional evidence for how such systems form, and bolsters the idea that other worlds like our own may be widespread throughout the galaxy.

Scott Horner, a research associate in astronomy and astrophysics, is part of the team of scientists that announced its finding on April 24. The discovery, actually made in late February, is based on observations at the Smithsonian's Fred Lawrence Whipple Observatory on Mount Hopkins, Ariz.

Using a special instrument called the Advanced Fiber Optic Echelle spectro-

See "Planet" on page 3

Inside

Correction

The news story in last week's *Intercom* on page 5 about commencement exercises refers only to University Park ceremonies. For information on commencement ceremonies at other Penn State locations, please contact the individual campuses. Also in the same story, the location of the Graduate School commencement activities was incorrect. The correct location is The Bryce Jordan Center.



Paterno Library

Last Friday marked the beginning of a nearly two-year construction project for the Paterno Library on the University Park campus. The \$26.5 million expansion to Pattee Library is being funded in part with \$11.7 million in private donations, including \$250,000 from Joe and Sue Paterno. For details, see page 10.

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Robeson

continued from page 1

tance of its goals to the University.

When Penn State President Eric A. Walker established a special commission to examine the relationships among various segments of the University community in 1969, a subcommittee in the black community and others made recommendations to establish a cultural center, which the new president, John W. Oswald, endorsed. The cultural center was to promote African American and other cultures and to encourage intercultural exchange. It was to help alleviate cultural shock for blacks and other minorities coming to Penn State; provide a forum for students, faculty and staff of all ethnic groups; and provide cultural support for blacks and other minorities through the exposure of contributions and achievements of minorities.

On May 21, 1971, the Black Cultural Center became a reality. Warren Coleman was asked to serve as acting director until a permanent replacement could be found. After much negotiation, the Walnut Building on Shortridge Road was selected as the center's home. During the spring of 1973 discussions began about changing the name in honor of an African American who had made significant achievements in education, the arts and civil rights. Paul Robeson was chosen, but because of the controversy surrounding Robeson as a civil rights activist, the University did not officially adopt the name for the center until 1984.

A 1974 expansion and 1986 remodeling of the exterior helped sustain the Robeson Center through a quarter-century of growth. Robeson events such as the "Caribbean Experience" and "Touch of Africa" celebrations, guest speakers and art exhibits spanned the multicultural heritage that define a thriving and diverse University community. With the number of annual events and visitors increasing every year and the changing demographics of the student body, which increased the demand for multicultural events and resources, the center rapidly outgrew its space. Besides space limitations, the physical condition of the aging building was also cause for concern.

During the winter of 1989, Young and his staff unlocked the door one morning and were greeted by the sight of several waterfalls streaming through a leaky roof. "We couldn't find enough buckets!" Young recalls.

The 1999 completion of the new HUB/Robeson Center will change all that. Its expansive floor space and enhanced media capabilities will better support the needs of its student groups, exhibitors and guest speakers.

Young looks forward to occupying the new facility, but recalls that the real lifeblood of the bustling center, throughout its history, has been the students.

"We have been fortunate to have a number of talented and enthusiastic students working with us and for us," he said. "Although they have gone on to make careers for themselves, they still stay in touch."

Students in the Class of 2000 will enjoy a new Robeson Center that bears little resemblance to the physical space it occupied 25 years ago. What Young is sure they will recognize is the opening and welcoming spirit of the center — one that will be a second home to all Penn Staters, young and the old.



Place in the sun

Students Rob Keller and Amy Vorgy study on the HUB lawn, which will be the site of a groundbreaking ceremony on May 2.

Photo: Greg Grieco

HUB/Robeson groundbreaking on May 2 will kick off two-year construction expansion and renovation project

The University will launch a two-year construction project for the HUB/Robeson Complex, which will renovate and expand the Hetzel Union Building (HUB) and house the new Paul Robeson Cultural Center at University Park. A groundbreaking ceremony will be held at 2 p.m., Friday, May 2, on the HUB lawn. Scheduled speakers include President Graham B. Spanier; Jesse Annette, chairman of the Board of Trustees; M. Nathan Nair, student trustee; and William Asbury, vice president for student affairs.

Designed by Williams Trebilcock Whitehead Architects of Pittsburgh, the HUB/Robeson complex will add 91,000 square feet to the existing 154,000 square feet composing the HUB and add the new Robeson Cultural Center. A linear addition will run from the west end of the HUB to the middle of the south wall of the Penn State Bookstore, preserving nearly all of the HUB lawn area. The new Robeson Center will be part of the complex but bear a distinctive oval-shaped identity.

The existing HUB will be renovated to become an integrated part of the whole complex, connected by a new four-story atrium space with skylights.

Among the many changes are a new Pollock Road entrance, a new auditorium, additional meeting rooms and student offices, renovated and expanded HUB Eateries dining areas, dedicated quiet study lounges, information and computer services, improved access for users with disabilities, art gallery space and an expanded ballroom.

The public is invited to the May 2 event, which will be a representation of the joining of the HUB and the Robeson Cultural Center. Speakers will be laying inscribed bricks representing the HUB and the Robeson Cultural Center, and the bricks will be placed in the new complex when it is completed. Also invited to the ceremony are student leaders, donors and staff members of the offices affiliated with the HUB and Robeson Cultural Center such as Student Life, Student Union, Housing and Food Services, ID card office and the Penn State Bookstore.

Built in 1955, the HUB is the main student union at the University Park campus, serving more than 50,000 students, faculty, staff and visitors. Approximately 25,000 people are estimated to use the building each day, and nearly 7,000 events are scheduled each year in the facility.

The Robeson Cultural Center sponsored 561 events in

What's in store

Starting later this month, workers are expected to begin the first phase of the construction project for the new Hetzel Robeson Complex. Site work for the relocation of utility lines will begin approximately May 26.

However, all services and operations in the HUB and at the Paul Robeson Cultural Center will continue as usual with just a few changes. Most of the HUB rooms such as the Ballroom and Fishbowl will still be available this year and in early 1998 for events, except for the Main Lounge and the Reading Room.

The construction management firm and contractors for the construction project will be selected soon.

More serious shifts in HUB operations are expected to happen sometime early to mid-1998 when the new addition is well under construction.

When site work begins in late May, the upper sidewalk nearest the lawn side of the HUB building will be closed, as well as the lawn ground-level entrance nearest the Billiards Room. A site fence will be set up around the construction area surrounding the sidewalk and slightly touching the lawn. But the HUB lawn outside the construction area will still be available for scheduled events as appropriate.

In early summer, construction and information updates will be posted on various bulletin boards and at the information desks at the HUB and Robeson Center, and at the expansion site on the Web at <http://www.psu.edu/HUB/Expansion/>. A newsletter will communicate regular updates to employees of the HUB and Robeson Center offices, and continual updates will be provided to the entire University community and the surrounding community.

1995, attracting 24,000 participants. The center is located in a World War II building that was moved to the campus in the early 1950s and designated as a temporary student union building.

The total construction budget is a little more than \$26.8 million. The project will be financed with funds generated by a portion of University Park student activity fees, private support, Housing and Food Services and University funds.

Planet

continued from page 1

graph, the scientists detected extremely small variations in the motion of a star—Rho Coronae Borealis. Rho Coronae Borealis is visible to the naked eye in the Northern Hemisphere from February through September and is located approximately 50 light-years from Earth. The star Rho Coronae Borealis is believed to be about 10 billion years old—twice as old as the Sun.

The irregularities in the star's velocity are thought to be caused by the presence of an orbiting companion. After carefully monitoring the star and its speed, the team of scientists concluded that the new-found planet orbits the star in 40 days. These variations also led the team to conclude that the planet must be slightly more massive than the planet Jupiter.

The short orbital period means the planet is closer to its star than Mercury is to the sun. This also implies its temperature would be more than 500 degrees Fahrenheit—much too hot for liquid water to exist, and hence not a likely place for life to form. According to the researchers, the circular nature of the orbit suggests that the planet was formed like the

For more information

A pre-publication version of the paper is available on the Web at <http://cfw-www.harvard.edu/afao>.



Discoverer

Scott Horner, part of a team of researchers that found a new planet, shows models of the star and its companion planet.

Photo: Greg Grieco

planets in our solar system, through the slow coalescence of dust and gas from the rotating disk that is thought to surround all newborn stars. A more egg-shaped orbit would suggest that the companion object was not a planet but a failed star.

The other scientists are from the Smithsonian Institution's Astrophysical Observatory (SAO) in Cambridge, Mass., and the National Center for Atmospheric Research (NCAR) in Boulder, Colo. The scientific team includes Sylvain Korzenik, Martin Krockenberger, Peter Nissenon, and Robert Noyes of SAO; Harvard University graduate student Saurabh Jha; Timothy Brown and Edward Kennelly of NCAR; and Horner.

A scientific paper describing the discovery has been accepted for publication in the *Astrophysical Journal Letters*.

"This discovery helps show that giant planets like Jupiter may be reasonably common around ordinary stars," Robert Noyes of SAO said. "It is exciting to think that there may be many smaller planets much more like the Earth in orbit around these stars, as in our own solar system."

Timothy Brown of NCAR said that all of the giant planets found so far orbit Sun-like stars.

This is the second "planet" discovery for a Penn State scientist. In 1994, Alexander Wolszczan, distinguished professor of astronomy and astrophysics, confirmed the presence of the first known planets outside our solar system.

■ University Faculty Senate

Senate imposes University-wide language requirements

By ALAN JANESECH
Public Information

Attention, high school classes of 2001 and beyond: If you want to go to Penn State, no matter what major you choose, you'll need to take at least two years of foreign language study in high school.

The University Faculty Senate voted to impose the new requirement after lengthy debate at its final meeting of the current academic year. Currently, foreign language study in high school is required only for B.A. degrees in the Eberly College of Science, the College of the Liberal Arts, and the College of Arts and Architecture.

The change will affect only students who graduate from high school in May 2001 or in subsequent years. For students who don't meet the requirement, but who otherwise would have been offered admission to Penn State, the Senate offered an alternate route. They can still be admitted, but with a "deficiency in a foreign/second language" that they must remove within two years, or before graduation, whichever comes first.

Twice during the meeting, University President Graham B. Spanier spoke in favor of the new requirement. Spanier has visited 30 high schools over the past 18 months and reported that there is strong support in the

high schools for a foreign language requirement.

In the increasingly international markets that Pennsylvania-based and other U.S. firms now operate in, Spanier said that proficiency in foreign language will give the edge to students. Spanier said he has heard this repeatedly from the CEOs of the firms he has visited.

Debate on the requirement centered on the differing impact that the requirement would have on Penn State locations across the state. The Senate Committee on Admissions, Records, Scheduling and Student Aid, which developed the new requirement, noted that the percentage of first-year students in 1995 who did not meet the requirement ranged from a low of 2 percent to a high of a little more than 10 percent at some locations.

But James W. Robinson, vice chair of the committee, said the committee discussed the differential impact of the requirement and decided to address it by allowing the admission of students with a deficiency in language study rather than imposing a strict admissions requirement and completely excluding those who haven't met it.

The committee developed the language requirement after meeting with Spanier in August 1996 and subsequently seeking comment from administrators at Commonwealth

campuses and other Penn State locations. In the summer of 1996, Spanier had asked the committee to add a foreign language requirement.

Spanier also addressed the Senate on a differential tuition plan, which is now being developed and may be considered by the University Board of Trustees at its upcoming meeting in July. Even though it costs more to educate upper-division students or students in certain majors, Spanier said, "we're still pretending it costs the same" to educate all students.

If the level of state support was much higher and tuition could be kept quite low, a single tuition rate would be easier to justify, Spanier said. "But we've reached a point where tuition levels are very high and probably unfair to some." Any phase-in of a differential tuition rate would be planned and implemented carefully to have the least negative impact on students, he said.

Many other Big Ten schools already have tuition differentials, as well as other schools Penn State competes with for students, Spanier said.

In other business, the Senate:

- Delegated to the faculty of the Dickinson School of Law the responsibility for the approval and content of courses taken by law students in the law curriculum. Penn State's merger with the law school, approved in January by the Board of Trustees, will begin its three-year phase-in on July 1.

- Discussed a recommendation to change the bylaws to rescind the delegation of authority over curriculum to Penn State Harrisburg, in light of the changing responsibilities and relationships being brought about by the implementation of the new Commonwealth College structure. The recommendation will come up for a final vote at a future Senate meeting.

- Changed its admission policy to allow the use of appropriate, academically relevant information, such as improvement in academic performance, extracurricular activities and work experience, in making admissions. The previous policy suggested that the only criteria used were high school performance and standardized test results.

- Discussed but did not vote on rule changes related to intercollegiate athletics, designed to take into account the implementation of the new Commonwealth College structure. The proposal was withdrawn and will be brought back to the Senate at a later meeting.

At the meeting's conclusion, outgoing Senate Chair R. Scott Kretschmar turned over the gavel to incoming Chair Louis F. Geschwindner.

The Senate will next meet on Sept. 8, at 1:30 p.m. in Room 112 Kerm Building on the University Park campus.

LECTURES

Interdisciplinary research seminar set for June 22-28

The lives and works of African American writers, poets, dramatists, filmmakers, activists, artists, musicians and steelworkers are among the topics that will be covered by an interdisciplinary research seminar June 22-28 at University Park.

The seminar, "African American Traditions," is being presented by Penn State's Institute for the Arts and Humanistic Studies, in collaboration with many other University offices.

One of the aims of this seminar is to find ways of translating advanced research in the arts and humanities so that it goes beyond boundaries of academic discourse and has an impact on everyday lives, values and aspirations. In addition to the presentation of scholarly papers and discussions, the seminar also will include a staged reading of "Brother's Keeper," a new play by Charles Dumas, associate professor of theatre arts at Penn State; a screening of two films with African American themes; and a performance by jazz scholar and saxophonist Barry Kernfeld and area musicians.

Nutrition and fitness topic of Harrisburg lecture

"Nutrition and Fitness for Healthy Aging" is the topic of a noon lecture on Thursday, May 8, at the Penn State Harrisburg Downtown Center.

William J. Evans, director of the Noll Physiological Research Center at University Park, will address the inactivity and poor dietary practices that are the second leading cause of preventable death in the United States. Evans will show how even small amounts of exercise practiced on a regular basis can have long-lasting effects. A question-and-answer period will follow the talk.

To register for this free presentation or for more information, call the center at (717) 783-0433.

Learn about air-bag sensor technology May 13

Joel A. Kubby from the Wilson Center for Research, Xerox Corp., will discuss micro-electro-mechanical systems (MEMS)—now found in air-bag crash sensors—in a talk set for 1:30 p.m. Tuesday, May 13, in 189 Materials Research Laboratory on the University Park campus.

In his talk, Kubby will review the promises and challenges in using this technology and will discuss Penn State's research and development program aimed at applying this technology within Xerox.

Kubby received his B.S. from the University of California at Berkeley in 1980 and his Ph.D. in applied physics from Cornell University in 1985. From 1985 to 1987, he worked at Bell Labs in New Jersey in the area of scanning tunneling microscopy. In 1987, he joined Xerox.

Family structure-school attendance link to be explored

Susan De Vos, associate scientist with the Center for Demography and Ecology at the University of Wisconsin-Madison, will present a seminar titled "Living Arrangements and School Attendance Among Children 13 to 16 in Latin America." This seminar examines the relationship between school attendance and various family structures in 10 Latin American countries. The variation in this relationship across countries is intriguing and may relate to the differences in the meaning of consensual unions across parts of Latin America.

The seminar, sponsored by the Population Research Institute, will be held at 11:45 a.m. Tuesday, May 13, in 406 Oswald Tower on the University Park campus. The public is invited to attend. Please contact Laura Zimmerman at (814) 865-0486 or lzimmer@pop.psu.edu for additional information.

The seminar is focused on an interdisciplinary exchange of new and emerging work in the arts and humanities and its topics are organized along three broad outlines: the social thought on race and culture of W.E.B. DuBois and other African Americans in public life; the linkages of African and African American cultures; and African American art.

Individual topics include W.E.B. DuBois on race and culture; "double consciousness" in African American literature; African American leadership and progressive politics; West African griots (musicians/entertainers) and the African American tradition; African metaphors in African American art; and the struggles of African American steelworkers.

The seminar will be held at the Penn State Conference Center and Hotel.

For more information, contact Sue Reighard at the institute, (814) 865-0495 or via e-mail at iahs@psu.edu.



Making repairs

Although winter keeps trying to make a comeback in much of the state, spring is officially here. And with spring comes the inevitable outdoor maintenance. Chris Varger, left, and Tom Martin spent time recently repairing wind damage on the roof of the Mushroom Research Center on the University Park Campus. They and their co-workers at all University locations will be busy in the coming weeks working hard to put back together what the winter weather has attempted to take apart.

Photo: Greg Grieco

Proposals sought for international collaboration

Penn State faculty and staff interested in collaborating with their colleagues at Penn State's key partner institutions in South Africa are invited to submit proposals for seed funding. Eligible partner institutions are the University of the Western Cape, the University of Cape Town, and the University of the Witwatersrand. Three awards ranging from \$8,000 to \$13,000 each are anticipated.

This funding is being made available to encourage faculty and staff to build on existing relationships by developing integrated projects combining two or more of the following components: curricular initiatives, human resource development, research collaboration and capacity building. Methods to achieve proposal objectives may include, but are not limited to, short-term academic

exchanges and distance education initiatives.

Projects should be conceived so that the seed grant will be used to leverage external funding for a larger project with long-term sustainability entailing lasting benefits and/or positive institutional change at the participating universities. Participant support will be closely linked to the project objectives, which should strive to provide for a multiplier effect. Inclusion of Penn State faculty who have not had any international education experience at Penn State is encouraged.

Proposal deadline is Sept. 15, with a project implementation start date of January 1998. To request applications, please call Pam Gudeman at International Partnerships and Academic Linkages at (814) 865-0414.

Goal of local Holmes Partnership is to reform the education of educators

Last fall, the College of Education, the Bellefonte Area and the State College Area school districts jointly applied to be a Holmes Local Partnership, a reconfigured continuation of the national Holmes Group.

The mission of the local partnership is "to improve the quality of prospective educators, practicing educators and the schools in which they serve, through the development of programs and models that serve local needs and contribute to the understanding of educator development and school reform."

The three partners will continue to develop activities, which extend

back to the early 1990s and more recently have been pursued under Pennsylvania Goals 2000 funding. Pennsylvania Goals 2000 is a program set up by Gov. Tom Ridge that sets certain standards for education in the state to reach by the year 2000.

The partnership seeks to simultaneously and collaboratively reform the education of educators and schools based upon research and best practice.

To date, 75 partnerships of universities and schools and national organizations have become members of the Holmes Partnership in its first year. The Web site for the Holmes Partnership is <http://www.udel.edu/holmes/>

University-wide search under way for associate dean

Penn State is seeking internal candidates for the position of associate dean for International Programs in the College of Agricultural Sciences. The candidate will be expected to develop dynamic, multidimensional international programs. The position is a half-time appointment with the remaining time devoted to teaching, research and/or extension responsibilities in one of the 12 academic units in the college. The associate dean is a member of the administrative team of the college and works cooperatively with the associate deans for research, extension and resident education. The associate dean for International Programs reports to the dean of the college.

The associate dean for International Programs will provide aggressive leadership and administer the college's international programs in research, teaching and extension. She/he will serve as spokesperson for

the international programs of the college.

Specific responsibilities include: (1) providing aggressive leadership for the development, planning, coordination and management of international programs in cooperation with faculty, staff and administrators; (2) evaluating and communicating opportunities for international programs and assisting in their development, and maintaining liaison with appropriate federal and international agencies such as USAID, USAID, FAKO/JUN, World Bank, regional development banks and private foundations; (3) stimulating internationalization of the curriculum; (4) encouraging and assisting faculty and staff in securing external funding for international programs and developing international contacts and linkages;

(5) providing leadership in efforts to enhance the visibility of international

programs of the college and to recognize and reward faculty and staff involvement in international activities; (6) representing the college on appropriate committees and to international programs in other colleges of the University, to the University Office of International Programs and the International Council, and serving on the board of directors of the Midwest Universities Consortium for International Activities (MUCIA); (7) supervising the Peace Corps recruitment program and providing liaison with the regional Peace Corps office; and (8) assisting with hosting of international visitors.

Candidates must have an earned doctorate in a field of study commonly associated with a college of agricultural sciences and hold a tenured academic position in her/his discipline, experience with international programs in agriculture, demonstrated leadership and administrative and

management skills. The ability to work with people and communicate ideas effectively is critical. A commitment to the research, resident education and extension education missions of a land-grant university is essential, as is a demonstrated commitment to international programs.

Please send application (letter of application and curriculum vitae), nominations and inquiries to the following address: **Charles W. Pitts**, chair, Search Committee for Associate Dean for International Programs, Penn State, 201 Agricultural Administration Building, Box INT, University Park, Pa. 16802. Applications and nominations will be reviewed beginning June 2, and will be accepted until the position is filled.

Penn State is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

Students gain exposure to high-tech, digital darkroom

By **GABRIEL J. WELSCH**
College of Arts and Architecture

In a black room in Mitchell Building on the University Park campus lights flash, computer screens zip and drives click and hum. A thrum of activity centers at two points: large-format digital video cameras at each end of the room. Enthusiasm seems to overpower what could easily be viewed as daunting technological instruments.

Stepping over cords and ducking under light booms, typing at the keyboards, they could be agents at a command central for an organization, a high-tech surveillance team from a conspiracy movie. But they're not. They're students in a digital photography class, capturing images on this virtual answer to film—a class made possible by the philanthropy of photographic giants Calumet Photographic Inc., Megavision Inc. and the Eastman Kodak Co.

Gerald Lang, professor of art, School of Visual Arts, has initiated a collaboration with a host of players to develop Penn State's new state-of-the-art digital imaging studio. Over the course of a year, Lang penned letters, made calls and traveled researching options and cultivating the relationships that eventually led to this digital imaging studio.

"I saw a student need," Lang said about his motivations to develop such a studio. "With the advent of digital imaging in the industry and the commercial world, our students needed this in order to be competitive in the marketplace. Penn State had nothing even remotely close, so I started looking for a way to bring the technology in and make it available to students."

Many of Lang's students also

understood the need for digital imagery at Penn State. In fact, one of Lang's graduate students, **Roberta Moore**, was instrumental in finding space. Moore approached officials in University Photo/Graphics to see if it could provide a home for Lang's digital equipment and the students.

"It was a wonderful opportunity: a partnership between an academic division and a service unit rooted in a discipline both groups love—photography," said **Jackie Rosenfeld**, director of marketing communications in University Photo/Graphics. "To have Jerry Lang on site, with his students and state-of-the-art equipment, was seen by University Photo/Graphics folks as a once-in-a-professional-lifetime opportunity to learn about new directions in their field."

The opportunities now available through the digital photography studio are most apparent when contrasting traditional operational details. Time is an important factor in the new imaging studio. Each photograph taken is stored instantly, encoded as data and held in computer memory, so each photo is a "keeper" to be edited, replicated or adjusted as needed. In the studio, the image just taken is immediately available for evaluation on the computer screen. There is no need to make test photos that will need to be taken again. No film needs to be processed, no negatives printed, no darkroom or chemicals required. The time difference between making the photograph on film and seeing the image in print or transparency can be substantial. Because the digital imaging process eliminates that time factor, the development and refinement of photographic ideas can happen very quickly. Critical response to the images can hap-



The future is here

Students in Gerald Lang's digital photography class use state-of-the-art digital imaging equipment to capture and edit their photographs.

Photo: Greg Grieco

pen at the same time the photographic idea is evolving. In teaching, research and the commercial world the implications are far-reaching.

Excited about the potential of the state-of-the-art, up-to-the-minute digital photography studio, Lang said, "The unique aspect of this photography class is that everyone is simultaneously in the studio. Photography is usually perceived as a very solitary art, one person out there with a camera or alone in the darkroom. Here, there's a collaboration on every photograph. It's the most social photography class I've ever taught."

As Lang's own work is renowned for its concern with antique processes, it seems odd that an expert antiquarian is working with digital photogra-

phy. Although this technology is perhaps 80 years removed from his previous work, Lang said his interest arises from similar curiosity.

"I'm interested in digital imaging in the same way I'm interested in antique processes: what it's about, how is it different, how does it work, what is the creative process and how that creative process is influenced by the technology."

For now, Lang is working with curriculum he developed while on sabbatical last year, but his plans foresee outreach and service potential in areas of workshops, conferences, continuing education opportunities and collaborative educational ventures with the companies who made this new program possible.

Appointments

Hazleton names public information and communications manager

David Donati has joined the Penn State Hazleton campus as its new public information and communications manager. In this position, reporting to the director of development and university relations, he will be responsible for public information, coordination of publications, advertising and promotion, and the University editor function at the campus. He also will work collaboratively with campuses in northeast Pennsylvania to coordinate advertising and promotion, and certain publications.

Donati had been an assistant to the vice president of marketing and business development at First Federal Savings, and at the same time, was in charge of public relations activities for the CAN DO industrial development organization. Other professional activities include work with 4M Broadcasting of Hazleton, where he was an assistant to the news director and a disc jockey.

Donati, a resident of Hazleton, is a graduate of Kings College where he majored in mass communications and English.

Center for Quality and Planning has new research, assessment director

Michael J. Dooris has been named director of planning research and assessment in the Center for Quality and Planning. In this position he will work closely with the executive vice president and provost to identify opportunities to better support University-level decision making through institutional research.

He also will support the planning and quality improvement objectives of the center, in both administrative and academic areas. The position will rely heavily on collaboration with the leadership of colleges, the University Faculty Senate and other administrative offices and units across the University.

Dooris has a bachelor's degree in economics from Penn State, an MBA from the University of Rhode Island and a Ph.D. in higher education from Penn State. He has worked as a statistician with the U.S. Census Bureau and a consultant with Andersen Consulting. Since 1981, he has held several positions in planning and budgeting at Penn State and, since 1995, Dooris has been in the Office of the Vice Provost and Dean for Undergraduate Education, as director of academic assessment.

He is an active member of Penn State's graduate faculty in higher education and has published 20 chapters and articles, mostly dealing with higher education organizational issues. He has won both the outstanding graduate student paper award and the outstanding article award of the Society for College and University Planning.

Retiring Inquirer vice president to become professional-in-residence

Gene Foreman, deputy editor and vice president of *The Inquirer* newspaper in Philadelphia, has been named the College of Communication's first distinguished professional-in-residence. Foreman, who will retire in July 1998 after 25 years at *The Inquirer*, will join the faculty in August 1998. He will teach editing and organize programs for training professionals.

Foreman has been writing and editing newspapers for 40 years. After college graduation and ser-

vise in the Army, he joined the *Arkansas Gazette* in April 1957. In 1962, he moved to *The New York Times* as a copy editor, but when the *Times* suspended publication in a printers' strike that lasted four months, he returned to Arkansas and went into newspaper management. In 1971, he returned to New York as executive news editor of *Newsday*.

Foreman was hired as managing editor/news at *The Inquirer* in 1973. He was appointed a company vice president in 1985, and his title was changed to executive editor in 1990, and to deputy editor in 1991.

Foreman was elected to the board of directors of the Associated Press Managing Editors three times and was APME's president in 1990. He has been a juror three times for the Pulitzer Prize competition.

He is a graduate of Arkansas State College, where he received a bachelor of arts degree in 1956 with a major in journalism.

New Raymond N. Shibley professor of mathematics named

Anatole Katok, professor of mathematics, has been named the new Raymond N. Shibley professor of mathematics.

The professorship, which is awarded to a different faculty member every five years, was established in 1986 by Raymond N. Shibley, then a partner in the Washington, D.C., law firm of Leboeuf, Leiby and MacRae. Katok is the third holder of the chair.

Katok's research covers a broad variety of subjects in the theory of dynamical systems, which serves as the mathematical foundation for the fields of nonlinear dynamics and the theory of chaos. He said he intends to use the bulk of the funds provided by the Shibley professorship to support the newly established Center for Dynamical Systems at Penn State.

Katok earned his diploma degree in mathematics in 1965 and his candidate degree in mathematics in 1968 at the Moscow State University in the former U.S.S.R. He worked in the Central Economics-Mathematics Institute of the U.S.S.R. Academy of Science in Moscow from 1968 until his emigration to the United States in 1978, when he accepted the position of professor of mathematics and special chair in analysis at the University of Maryland. In 1984 he became professor of mathematics at the California Institute of Technology, then joined Penn State as professor of mathematics in 1990.

He has authored or coauthored more than 80 papers and three books. He has been actively involved in the leadership of two premier national institutions in mathematics: The Mathematical Sciences Research Institute at the University of California at Berkeley and the Institute for Mathematics and Its Applications at the University of Minnesota.

Leonhard Center welcomes new director

Thomas A. Litzinger, professor of mechanical engineering, has been named the new director of Penn State's Leonhard Center for the Enhancement of Engineering Education.

The Leonhard Center, based in the College of Engineering, aims to develop new and better ways to teach engineering by bringing together imaginative, talented engineering students, faculty, industrial partners and practicing engineers to implement

improvements in engineering education. It was established in 1990 through an endowment gift from William E. Leonhard, retired chairman, president and chief executive officer of the Parson Corp., and a 1936 Penn State electrical engineering graduate.

Litzinger is widely respected for his teaching and research and accomplishments as director of ECSEL at Penn State. Under his leadership, ECSEL's joint efforts with departments include: the revision of the freshman engineering course and its adaptation to all campuses, the sail plane curriculum in aerospace engineering, vertical integration of case studies in chemical engineering, the integration of design into introductory circuits courses in electrical and computer engineering and a national faculty development workshop at Penn State.

He has taught undergraduate and graduate courses. In recognition of the quality of his teaching he has received the Penn State Engineering Society's (PSES) Premier and Outstanding Teaching awards.

Litzinger's research involves chemical aspects of combustion related to internal combustion engines, gas turbines and rockets. He was a recipient of an NSF Presidential Young Investigator Award and a PSES Outstanding Research Award. He earned his B.S. in nuclear engineering from Penn State, and his M.S. and Ph.D. in mechanical engineering from RPI and Princeton University, respectively. He became a Penn State mechanical engineering faculty member in 1985, and was promoted to full professor in 1995. His appointment as the director of The Leonhard Center is effective July 1.

Regional development director joins Development and Alumni Relations

Paul Olivett has been named regional director of development for the Florida region in the Division of Development and Alumni Relations.

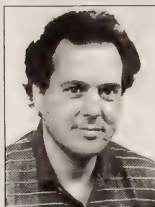
In his new position, he will be responsible for planning and implementing fund-raising programs in the state as part of the University's forthcoming capital campaign, and will report to **Clay Edwards**, director of the Office of Regional and University programs. His activities will include helping to identify prospective donors and recruiting and training capital campaign volunteers.

Olivett joined Penn State in 1995 as an associate director in the Office of Planned Giving and Endowments. While there, he worked with benefactors to the University to facilitate planned and major gifts. Before that, he spent two years with the Lancaster County chapter of the American Red Cross as the chapter's development officer.

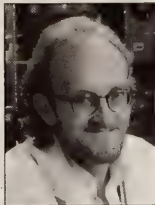
He earned his bachelor's degree in English from Franklin and Marshall College in 1990 and is currently a master's degree candidate in Penn State's higher education program.



MICHAEL J. DOORIS



ANATOLE KATOK



THOMAS A. LITZINGER



PAUL OLIVETT

Quality Expo '97

Information provided by the Center for Quality and Planning

May 1, 1997

Quality Expo enjoys largest showing ever

With the largest showing of teams in its history, Quality Expo '97 celebrated its fifth anniversary on April 17 at the Nittany Lion Inn with exhibits from 67 Continuous Quality Improvement teams, panel discussions about classroom innovation and maintaining momentum in a quality organization, and a teambuilding workshop. Visitors during the 11 a.m. to 3 p.m. exhibition heard about team achievements across Penn State at University Park and Commonwealth Campuses.

In welcoming visitors to Quality Expo '97, President Graham B. Spanier noted the success of CQI at Penn State because "at its heart is the process of learning. We may have borrowed this approach from industry," Spanier said, "but it is really very much at home in the university setting. With its careful observation and critical analysis and its focus on progress and improvement, CQI mirrors the methods and mission to which Penn State is dedicated."

The Quality Expo featured exhibits of the work and achievements of approximately 480 team members. The Nittany Lion Inn ballroom, festively dressed in the Quality Expo's signature teal and mauve balloons, featured colorful booths, computer presentations and slide shows, and handouts detailing the processes identified, studied, and improved through the use of quality principles. In the Alumni Fireside Lounge, Quality Circle programs informed and entertained Quality Expo visitors. In the Atrium, the Penn State Bookstore displayed a large selection of the latest quality improvement books.

Five years ago, the University's Continuous Quality Improvement Center held its first expo in the Hetzel Union Building Ballroom to highlight the work of 23 Penn State teams, composed primarily of University staff members. Since that time, the Quality Expo has grown to encompass the efforts of teams of students, faculty members and staff, and has featured the successes of interdisciplinary and cross-unit teams.

"When first held, the CQI Fair focused on our success in decreasing 'wait states,' the time a student spends while waiting in line in a particular University office. We highlighted achievements made in streamlining processes," said Executive Vice President and Provost John Brighton. "Now, we also celebrate the progress made in the University's core processes. We have advanced from 'wait states' to the process of learning in the classroom."

Penn State's progress results from commitment of a cross-section of University participants. "What is particularly gratifying about Quality Expo '97 is the involvement of all segments of the Penn State community," said Louise Sandmeyer, executive director of the Center for Quality and Planning. "The quality achievements featured at the Quality Expo reflect the efforts of faculty, students and staff at all levels, and involve initiatives at University Park and the Commonwealth Campuses and The Hershey Medical Center."

Again this year, the Quality Expo attracted visitors from industry and other colleges and universities that have embarked on the quality journey. Industry visitors included representatives from Penn State corporate partners — including IBM and DuPont — and Corning Asahi. Visitors from other colleges and universities included exhibitors from the State University of New York at Binghamton and Rutgers University, and representatives from the University of Pittsburgh, the Pennsylvania State System of Higher Education, Syracuse, Tennessee, Villanova and the University of Puerto Rico. Cynthia Pullen, training coordinator in the Rutgers Quality and Communication Improvement (QCI) Office, traveled to University Park to view the broad support for quality initiatives at Penn State. "The efforts at Rutgers have thus far focused on staff teams and excellence in service," she said, "and we, too, have seen tremendous positive changes."

The Hershey Medical Center CQI team member Debbie Graby summed up her involvement in CQI activities: "Everyone working together — that's what it takes to solve problems."



Physical Plant team representatives, including Lou Plank, third from left, and Doug Donovan, right, talk about their team activities with Cheryl Achterberg, administrative fellow, and President Graham B. Spanier.

Photo: Dave Shelley



The Office of Admissions at Penn State Erie, The Behrend College, showcased team initiatives at Quality Expo '97. Donna Fuller, right, and Adam Rohan talk with a Quality Expo '97 visitor. The admissions teams focused on improving admissions publications, recruitment, campus tours and telephone communication.

Photo: Dave Shelley

"The quality achievements featured at the Quality Expo reflect the efforts of faculty, students and staff at all levels, and involve initiatives at University Park and the Commonwealth Campuses and The Hershey Medical Center."

*Louise Sandmeyer,
executive director,
Center for
Quality and Planning*

OVERHEARD

Quotes from visitors and team members at Quality Expo '97



"CQI is helping to make this an exemplary University by making Penn State more aware of itself and more responsive to the needs and concerns of those we serve."

Graham B. Spanier



"The Quality Expo clearly reflects the enthusiasm and broad-based support CQI has at Penn State."

Ron Loewen,
University of Tennessee



"The team gives us several opinions and ideas. Then we determine the best ideas. Once we put into place our changes, we continue looking for ways to improve."

Lyn Harmon
Undergraduate Admissions
Office Transcript Teams



"The Quality Expo provides a unique opportunity to share our experiences, and to learn all we can from those team experiences."

Fred Loomis
Quality Circle Program:
Maintaining Momentum in
a Quality Organization



"The greatest aspect of the team was working with many different people from other backgrounds: the multicultural and multidisciplinary nature of the team."

LaTrelle Jackson
CAPS Clinical Services
Improvement Team



Six University units were honored for their five-year participation in the Quality Expo. Executive Vice President and Provost John Brighton, left, presents a recognition gift to Enrollment Management and Administration representatives (from left) Anna Oriswold, Joy Dietz and Jim Wager. Other units exhibiting in each year of the Quality Expo include: University Libraries, Finance and Business, Continuing and Distance Education, The Smell College of Business Administration and the Office of Student Affairs.

Photo: Dave Shelley

Team supports alcohol intervention

Penn State quality teams have improved more than the University's business and teaching processes. They also are supporting and enhancing the overall campus environment.

On Feb. 1, 1996, the Office of Judicial Affairs and University Health Services put two teams in place to address an area of particular concern: student alcohol abuse. Donald Suit, director of the Office of Conduct and Standards, and Dr. Margaret Spear, director of University Health Services, saw advantage in bringing their departments together to ensure easy access to educational programs that would raise awareness and effectively curb the cycle of abuse.

Two Alcohol Intervention Program (AIP) teams were formed, each given an objective. The first team was charged with the responsibility of improving communications between all areas and improving the existing process. The second team was responsible for formulating a third level of treatment, aimed at intervention for first-time offenders.

Team deliberations resulted in a more streamlined process and clearly defined job roles and responsibilities. Communication between Judicial Affairs, University Health Services and the students improved dramatically. Paper flow is kept to a minimum and referred students are now contacted by phone, within hours instead of days or weeks. The second team succeeded in creating a new level of treatment that incorporates intervention strategies. First-time offenders are referred to peer-to-peer sessions designed to educate and address alcohol-related problems before they result in arrest or injury.

According to Suit, taking a more personal approach in working with referred students and adopting a team approach to problem solving has paid off. Spear agrees, noting that incorporating the level one program for early intervention has succeeded in identifying and assisting at-risk students, but also effectively doubled the AIP case load.

"The newly-streamlined process has made it possible for the staff to take on a tremendous volume of work, supporting prevention through education, without it being too overwhelming," Spear said.

AIP Team No. 1: Communication: Team Leader/Facilitator Doris Gnanowsky and members Jennifer Shea, Linda Poria, Natalie Croll, Peggy Ackerman, Randy Shine and Stephanie Barone.

AIP Team No. 2: Intervention: Team Leaders Bill Huston and Natalie Croll and members Barbara Copland, David Goodman, Karen Feldbaum, Kelly Byers, Robin Sterba, Tracy Fisk and Wendy Williams.

Sponsors for both teams: Donald Suit, Margaret Spear.

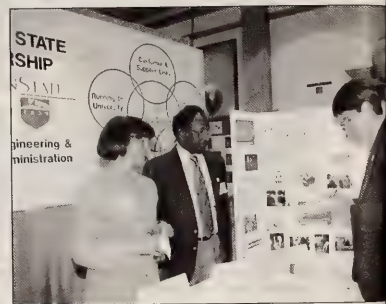
The Schreyer Institute for Innovation in Learning: Student Quality Initiative

In Political Science 300H: Honors Seminar in Critical Reasoning, students to teamwork used quality tools and principles to gauge learning. The result, they say, is a greater understanding of quality tools and students' grades.

"The main advantage in our class was getting to work in teams. The course was built around teamwork," student Melodie Stowasser said. Quality Team, composed of a team member from each of the teams of the class and a former class member, tracked learning and teaching peers to help the class "work smarter." The team used quality tools to focus during the course. "Surveys were conducted every week. We measure how much students learned, how much time they spent on course work, the material was and how teams worked together," said teammate Laura. "We worked on teams in classes before, but this was different. Even the team worked equally," Stowasser said. The teamwork paid off. Stowasser agrees. They credit their team activity for increases in the grade and decreases in grade variance. "More students got A's," Stowasser said.

Future classes will use a computer program Norton developed. The "planet" program is a game set in the future. "You progress through the using quality principles learned in the course," he said. "The game for further increase students' learning."

Larry Spence, director of the Schreyer Institute for Innovation in Learning, an associate professor of political science, taught the course. Student teams also include Joshua Horenstein and Sarah Grey.



George Breon, director of CQI in The Smell College of Business Administration, and engineering faculty member Jaya Chandra, talk with Tod Stenger about the ISAT ship with Colleges and Universities exhibit.

The Hershey Medical Center Outpatient Practice Sites Waiting Team

Surveys identified the area most patients wanted to see improved at Medical Center: decrease waiting time. An Outpatient Practice Sites Waiting Team, under the leadership of Rebecca Densmore, was formed to address this issue. The focus, said CQI team member Don Smith, was that patients waited at the medical center for their scheduled appointment time the care provider enters the examination room.

Through flow charting, the team identified the "wait states": check waiting room and the examination room. The team developed recommendations to decrease the wait time. Hershey revised physician scheduling, increased staff, added provider clinic sessions, installed an examination room and is studying in-depth "wait states."

The team included representatives from administration, the physician and clerical staff and medical assistants. "Everyone came together to solve the waiting time issue," Smith said. Team member Debbieepleased with her team involvement. "I was pleasantly surprised that participated. The experience taught me to be more open-minded," she said.

This is the third year The Hershey Medical Center has participated in the Quality Expo, this year, 13 teams exhibited. Outpatient Practice Sites Waiting Team members also included Deborah Davis, facilitator; Alan Adelman, Cheryl Heckman, Gregory Bracale, Janice Mills, Mary Dewey, Vicki Nice.



At the Quality and Manufacturing Management (QMM) exhibit, students of the joint Smc College of Business Administration and College of Engineering master's degree program discuss improvements. QMM students in the Quality and Manufacturing Management 551 course exhibiting at the Quality Expo '97 were, from left, Hector Ramos, Jihoon Kim, Iris Rivera and Hector Rodriguez.

Photo: Dave Shelly

University Libraries: Preservation Bindery Team

The "old way" involved seven steps that included as many as four people to complete one step. The "new way" pared the process by four steps, decreased the number of staff needed to complete vital steps and saved processing time of three minutes, eight seconds per book.

The University Libraries Preservation Bindery Team used Continuous Quality Improvement principles to study the process by which books are logged before being sent to the bindery to be scanned and bound. "Through CQI, we revised the workflow," team member Kathy Gibboney said. Previously, the process turnaround time was four to six weeks. "Now we're completing the process in less time and with fewer people handling the books." The streamlined process benefits students and faculty in another way: the less time it takes for the team's handling of a book, the less time the book is away from the stacks and out of circulation, she said.

In a world of online information, the preservation of books remains a priority for the Libraries, Gibboney said. "The Libraries will profit by making people aware of how valuable it is to preserve books for all time," Gibboney said.

The Libraries have participated in all five years of the Quality Expo. This year, the Libraries featured four teams. Preservation Bindery Team members also included Andy Bigans, Carol Hugar, Carol Krusch, Diane Kurtz, Jane Hosterman and Susan Breon.

Office of Physical Plant: Measure Space Team

Their problem statement was clear: "Cost and effort are wasted measuring occupied space in new or remodeled major facilities." The five-member Office of Physical Plant Measure Space Team, sponsored by Deb Howard, interim director for operations, and headed by Jim Lettiere, acting director of facilities resources and planning, found that a number of University units were measuring the same campus space for different reasons. Team member Bob Yearick, for example, needs accurate and up-to-date measurements of space to perform his job: determining and allocating janitorial services for University facilities. Those services are assigned, in part, based on the size of the room and its use.

"Our department maintains the inventory information," Lettiere said. "All other departments now can access the data through a space inventory database that includes the size of the space in square footage, the name of the facilities coordinator for the space, the use of the space (example: classroom or office), and who the space is assigned to."

"The CQI process has saved me a lot of time and has saved the University money," Yearick said. "By having accurate, up-to-date measurements, I can allocate appropriate janitorial crews and resources based on the area."

OPP's quality initiatives derive from the unit's strategic goals. Currently, nine teams are under way in OPP. Seven exhibited at Quality Expo '97 and 10 more are just getting started, said Doug Donovan, energy conservation engineer.

The Measure Space Team also included Kathy Poissant, facilitator, and team members Susan Yothers, Scott Hard and Dick Tennent.

Quality Circle Program: Maintaining Momentum in a Quality Organization

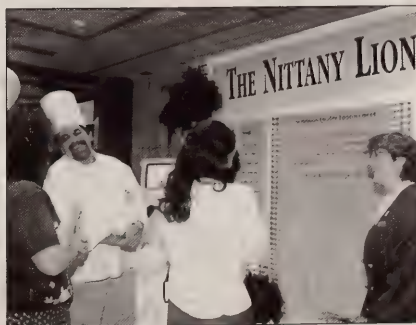
Once a quality program is up and running and measuring successes, the organization can't afford to become complacent. Maintaining momentum takes the continuing concerted efforts of everyone in the organization, three presenters stressed in a Quality Expo '97 Quality Circle Program.

Stephen Groves, division vice president and director of Manufacturing Operations, Corning Asahi Video Products Co., detailed the State College plant's near shutdown in 1991. A series of activities turned the plant around, including meetings with customers unhappy with Corning Asahi products. "To reach the goal of a high performance work system — that synergy among workers — you want to get work processes under control. Hire, train and certify the best people to do the work," he said. Management, he added, provides the focus for plant resources and continuing employee efforts.

Dave Butt, associate professor and coordinator, MBA Communications, identified characteristics of effective teams and provided practical suggestions for team-building. Attention to team development and members' growth are vital. "Prepare people to do it right. How? Training, coaching, opportunity and amnesty — the ability to 'fail forward,'" he said.

Fred Loomis, director of administration and information management systems in Continuing and Distance Education, identified three types of teams: teams that recommend things, teams that do things and teams that manage things. "All three are critical to building and sustaining momentum," he said. Working together ensures quality within the organization.

David Wormley, dean of engineering and chair of the University Council on CQI, introduced the "Maintaining Momentum" session. Two additional quality circle programs were held during Quality Expo '97: *Innovation in the Classroom* with William Engelbret, associate professor in Business Administration (Altoona); Kathleen Mastrian, assistant professor in Nursing (Shenango); **Dee McGonigle**, associate professor in Nursing (New Kensington); and **Gregory Ziegler**, associate professor in Food Sciences (University Park), introduced by University Provost **John Brighton**; and *Team Building with Shaver's Creek Environmental Center* with program directors **Cooper Potter** and **Lynne Hudson**, and introduced by Patricia Buck, associate dean of Continuing and Distance Education.



Nittany Lion Inn Chef Tom Shilling and Karen Alprino, far right, talk about quality initiatives at the Inn with visitors to Quality Expo '97.

Photo: Dave Shelly

PARTICIPATING TEAMS

CHAMBER OF BUSINESS AND INDUSTRY OF CENTRE COUNTY
Total Quality Council of Central Pennsylvania

COLLEGE OF COMMUNICATIONS
Morale Movers

COLLEGE OF EARTH AND MINERAL SCIENCES
Staff Initiatives

COLLEGE OF ENGINEERING / COLLEGE OF EDUCATION / THE SMEAL COLLEGE OF BUSINESS ADMINISTRATION
IBM Grant

CONTINUING AND DISTANCE EDUCATION
Management Development Programs and Services

ENROLLMENT MANAGEMENT AND ADMINISTRATION
Undergraduate Admissions Office
Incoming E-mail Communications
Transcript Articulation System
Transcript Center

ENROLLMENT MANAGEMENT AND ADMINISTRATION / OFFICE OF BUDGET AND RESOURCE ANALYSIS
Executive Information Systems

ENROLLMENT MANAGEMENT AND ADMINISTRATION / UNDERGRADUATE EDUCATION
Comprehensive Academic Advising and Information Systems (CAAIS)

EXECUTIVE VICE PRESIDENT AND PROVOST
The Schreyer Institute for Innovation in Learning
Assessment in Learning
Student Quality Initiative
The Learning Edge Academic Program (LEAP)

FINANCE AND BUSINESS
Real Estate and Property Study Team

Real Estate and Property Study Team, Steering Committee

FINANCE AND BUSINESS
Office of Business Services
Business Services Technical Service Evaluation Team

FINANCE AND BUSINESS
Office of Human Resources, Faculty/Staff Promotion Division

FINANCE AND BUSINESS
Office of Human Resources, Human Resource Development Center

FINANCE AND BUSINESS
Office of Human Resources, Management Engineering

FINANCE AND BUSINESS
Office of Physical Plant
Board of Trustees Process Action Team

CQI Master Plan, CQI Quality Management Board
CQI Master Plan, Executive Steering Group

Material Delivery at Construction Sites Team

Materials Handling Team
Measure Space Team
OPP Litter Pickup Process Action Team

Unclear Customer Needs Team

FINANCE AND BUSINESS
The Nittany Lion Inn

THE HERSHEY MEDICAL CENTER
Adverse Drug Reaction/Medication Error Reporting Team
Decrease Intravascular Hemorrhage: 2 Person ET Suction Procedure
Inpatient Adult Psychiatry: Group Medication Teaching Team
Multidisciplinary Collaboration Outpatient Practice Sites Waiting Team

Patient Dissatisfaction with Meal Trays Team

Pediatric Post Op Pain Management Team
Perioperative Patient Flow Team
Preadmission and Admission Redesign Projects
Primary Nursing Team
Relaxation and Anger Control Management Team
Soiled Coat Elevator Room Project
Tandem and Ovoid CQI Team

OUTREACH AND COOPERATIVE EXTENSION
Continuing and Distance Education

PENN STATE ALTOONA
Software Access Team
The Just Do It Team

PENN STATE ERIE, THE BEHREND COLLEGE
Office of Admissions
Admissions Publications Improvement
Admissions/Athletics Recruitment Process

Campus Tour Improvements

Telephone Improvement

RESEARCH AND GRADUATE EDUCATION
Graduate School
Graduate Records Imaging Team

RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY
Office of Organizational Quality and Communication Improvement

THE SMEAL COLLEGE OF BUSINESS ADMINISTRATION
Management Science and Information Systems
Operations Management 419
Business Student Council Consultants (BSCC)

MSIS 200 Recitation Improvement Team
Organization Membership Improvement Team
Penn State Quality Development Team

Quality Consultants
Total Quality Communication Team

THE SMEAL COLLEGE OF BUSINESS ADMINISTRATION / COLLEGE OF ENGINEERING
Quality and Manufacturing Management Program
Continuously Improving QMM

STUDENT AFFAIRS
Student Affairs Information Technology Team

STUDENT AFFAIRS
Center for Counseling and Psychological Services (CAPS)
CAPS Clinical Services Improvement Team

STUDENT AFFAIRS
Judicial Affairs
Alcohol Intervention Program
Judicial Affairs Semester Report
Student Charges: Notification and Contact

STUDENT AFFAIRS
Research and Assessment
Pulse of Students as Customers

STUDENT AFFAIRS
University Health Services
Alcohol Intervention Program (AIP)
CQI Team
Clinical Tracking Team

STUDENT AFFAIRS
University Health Services
Quality Initiatives in University Health Services
Provision of Tobacco Cessation Support to Students
Wait Time for Patient Initial Evaluation in Physical Therapy Department

STUDENT AFFAIRS / COLLEGE OF HEALTH AND HUMAN DEVELOPMENT
University Health Services/Department of Nutrition
Client Satisfaction with Nutrition Counseling: Student Counselors vs. R.D.

STUDENT AFFAIRS / DEVELOPMENT AND ALUMNI RELATIONS
Career Development and Placement Services / Penn State Alumni Association
Alumni Career Services CQI Team

SUNY BINGHAMTON
Computerizing and Standardizing the Requisition Process
Improving Office Workload and Flow Through Better Individual Time Management
Managing a Call Answering System by Reducing Incoming Calls

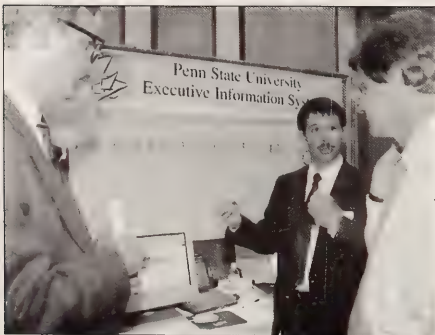
UNDERGRADUATE EDUCATION
Division of Undergraduate Studies
The DUS Navigator

UNIVERSITY LIBRARIES
Borrowing Team
Coordinating Team
Lending Team
Preservation Bindery Team

PLANNING TEAM

Special thanks to the Expo Planning Team for making this event possible:
Ann Alters, Jean Barzetti, Larry Burton, David Dimmick, Alan Friedrich, Dorothy Guy, Judith Hewes, Linda Klimczyk, Clare Kristofco, Fred Loomis, Monica Nachman, Sue Oram, Michael Poorman, Barbara Sherlock, Larry Spence, Karen Wagner, Ellen Walker and Betsy Wilson.

Quality Expo '97 coverage:
Stories by Clare M. Kristofco, College of Engineering, and Karen Wagner, Office of Public Information



Representatives from the CAPS Clinical Services Improvement team Will Waddington, left, and Dennis Heitzmann, right, talk with Steve Selfe from the Executive Information Systems team.

Photo: Dave Shelley



The ARTS AT PENN STATE

Film Festival May 3

The popular CAN Film Festival, an annual public showcase of the best work from students in the College of Communications' film/video program, will be held at 7 p.m. Saturday, May 3, in Eisenhower Auditorium.

CAN is a fully student-run festival of student work, and students have a major role in deciding what will be shown. The format of the event is a non-judged screening of the best student work from the past academic year. The showing will run approximately three hours and include a brief intermission. Tickets for assigned seating are free to students with photo identification and \$5 for the general public. Tickets may be purchased in person at any Center for the Performing Arts box office or by calling (814) 863-0255.

Odyssey Through Literature

On the May 4 episode of Odyssey Through Literature George Boornstein of the University of Michigan speaks with host Leonard Rubinstein about his discovery and publication of 38 early poems of the Irish poet W. B. Yeats.

On the May 11 episode, John Fyler, chair of the English Department at Tufts University, discusses the plight of the poet as historian — or as panderer. Fyler discusses his article "Fabrications of Pandarus," which analyzes the Chaucer tale "Troilus and Cressida."

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 on WPSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://mickley.la.psu.edu/compil/odyssey/odyssey.htm>.

Storyteller at the Palmer May 10

Jan Kinney, storyteller for the entire family, will appear at 11 a.m. Saturday, May 10, at the Palmer Museum of Art on the University Park campus. The event is free to the public. For more information, contact the museum office at (814) 865-7672.

UNIVERSITY PARK CALENDAR



Field trip

Doug Steingwalt, an employee at the Shaver's Creek Environmental Center, displays a Golden Eagle to students from Lock Haven State University. The center, which houses a variety of birds of prey, snakes and other animals and features nature trails, is open to the public. The center will hold a spring wildflower walk on the grounds on Sunday, May 4. The fee is \$3 for members, \$4 for nonmembers and \$2.50 for children under 12. To register for this event, or for a schedule of other activities, call the center at (814) 863-2000.

Photo: Greg Grieco

SPECIAL EVENTS

Friday, May 2

Scott Davis and Colleen Cochran, student recital, clarinet, 8 p.m., Recital Hall.

Saturday, May 3

Catherine Clifton on "American Watercolors at the Palmer Museum," 11:30 a.m., Christoffers Lobby, Palmer Museum of Art.

The Royal Hanneford Circus, 2 and 7 p.m., The Bryce Jordan Center, through May 4.

Celia Tice, graduate recital, piano, 8 p.m., Recital Hall.

Sunday, May 4

Chamber Music Recital, 7 p.m., 122 Music Building II.

Tuesday, May 6

University of Michigan Symphonic Band, 8 p.m., Eisenhower Auditorium. For tickets, phone (814) 863-0255.

Saturday, May 10

Storyteller Jan Kinney tells tales for the entire family, 11 a.m., Christoffers Lobby, Palmer Museum of Art.

SEMINARS

Friday, May 2

Amartya Bhattacharyya on "Exploring Job Market Opportunities in Consulting," 3:30 p.m., 339 Davey Laboratory.

Tuesday, May 6

Jim Zachos on "Climate Instability at the Eocene/Oligocene and Oligocene/Miocene Boundaries? A New High Resolution Perspective."

4:40 Doubt with special guests CIV and The Vandals, 7:30 p.m., The Bryce Jordan Center.

Wednesday, May 7

S.K. Sinha on "Phase Transitions at Liquid Surfaces," 4 p.m., 339 Davey Laboratory.

Friday, May 9

Ralph E. Gomory on "New Opportunities for Learning Outside the Classroom," 11:30 a.m. to 1 p.m., The Nittany Lion Inn. For tickets, phone (814) 865-7590.

Tuesday, May 13

Susan De Vos on "Living Arrangements and School Attendance Among Children 13 to 16 in Latin America," 11:45 a.m., 406 Oswald Tower.

Joel A. Kubby on "Micro-Electro-Mechanical Systems," 1:30 p.m., 189 Materials Research Laboratory.

Thursday, May 15

Mary Pipher on her latest book, *The Shelter of Each Other: Rebuilding Our Families*, 8 p.m., Penn State Conference Center Hotel. To register, phone (800) PSU-TODAY.

CONFERENCES

Saturday, May 10

"Menopause: Making the Transition," 8:45 a.m. to 12:45 p.m., Penn State Conference Center Hotel. To register, phone (800) PSU-TODAY.

Thursday, May 15

"The Role of Freshman Seminars in Promoting Student Retention and Success," 101

Agricultural Sciences and Industries Building. To register, phone (814) 865-7522.

EXHIBITS

HUB Browning Gallery

"A Love of Nature" by Marlee Erwin, May 6 through June 8.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Sketches titled "Shalom," through May 22.

Kern Tall and Flat Cases

"The Passover Haggadah — A Jewish Cultural Phenomenon," through May 18.

Palmer Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 8.

"Exotic Illusions: Art, Romance and the Marketplace," through June 15.

Zoller Gallery

"MFA Thesis Exhibitions," drawings/paintings by Carol Peebles and Greg Stahler, through May 10.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>

Faculty/Staff Alerts

Thanksgiving calendar change

To help students travel safely and in timely fashion over this year's Thanksgiving holiday—without skipping classes—Penn State is changing its official University Park calendar for November 1997.

Under the change, classes at University Park will end at 12:05 p.m. Wednesday, Nov. 26—the normal ending time of fourth-period classes. Other locations may adopt the change, as appropriate.

All morning classes on the Wednesday before Thanksgiving will remain scheduled as before. Instructors whose classes would have met after 12:05 p.m. Wednesday are expected to provide opportunities to make up the class time missed because of the early closing. If needed, the Registrar's Office will work with faculty and departments on rescheduling.

The University will monitor how the schedule change works this year and the results of its assessment will be used to guide Thanksgiving holiday scheduling in future years.

Library hours

The University Libraries announce extended hours during the final exam period, May 2-11. The hours are as follows:

- **Friday, May 2:** 7:45 a.m. to 9 p.m., and certain areas from 9 p.m. to midnight*
- **Saturday, May 3:** 8 a.m. to 9 p.m., and certain areas from 9 p.m. to midnight*
- **Sunday, May 4:** 9 a.m. to midnight, and certain areas until 2 a.m.**
- **Monday, May 5 - Thursday, May 8:** 7:45 a.m. to midnight, and certain areas from midnight to 2 a.m.**
- **Friday, May 9:** 7:45 a.m. to 9 p.m., and certain areas from 9 p.m. to midnight*
- **Saturday, May 10:** 8 a.m. to 5 p.m.
- **Sunday, May 11:** CLOSED

*Includes Reserve Reading Room and East Pattee floors 1-4 only;

**Includes Reserve Reading Room, West Pattee floors 1-2, and East Pattee floors 1-4. (During extended hours these areas are open for studying and in-house use of materials.)

- **Music Listening Room:** Regular hours
- **Pollock Library:** Continue 24-hour service during the final exam period until closing at 5 p.m. Saturday, May 10. It will remain closed Sunday, May 11.
- **All University Park campus branch libraries:** Regular operating hours through Friday, May 9. They will close at 5 p.m. Saturday, May 10, and will remain closed Sunday, May 11.

In addition, University Libraries at University Park will observe a revised schedule during Intercession May 12-11.

For more information on hours of library service, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu/> and click on Library Info.

ARL Open House

The Applied Research Laboratory (ARL) is hosting a free Open House from 4 to 8 p.m. Wednesday, May 7, at the Applied Sciences Building to give the public an opportunity to see state-of-the-art Russian technologies that may soon be spun off to American industries.

The Open House is part of a series of technical workshops and meetings on turbomachinery, thermal power and welding technology being held at the Applied Research Laboratory May 6-9. The formal workshops and meetings are open to registered participants only and will feature 15 Russian engineers

and their peers from U.S. industry and academia who will demonstrate and discuss state-of-the-art technologies from both countries.

For additional information, contact **Edmond D. Pope**, ARL foreign science and technology, at (814) 865-2921 or e-mail edp2@psu.edu.

Directory assistance holiday hours

The Penn State Information and Directory Assistance Office will be operating on the following hours for the Memorial Day holiday:

Monday, May 26—8:30 a.m. to 4:30 p.m. The office will resume normal hours of operation (7:30 a.m. to 11 p.m.) on Tuesday, May 27.

Office professionals to be recognized

Penn State Educational Office Professionals will hold their Spring Recognition Reception at 5 p.m. Wednesday, May 14, in Room 118 of the Agricultural Science and Industries Building on the University Park campus. The featured speaker is **Laura Frye**, manager of human resources and administrative services for the College of Engineering. The topic is "Get Involved." Also featured will be the Outstanding Office Personnel Awards and installation of officers.

For reservations or information please contact **Arnell Stover**, 1800 PSU, office or (814) 865-6393. Penn State Educational Office Professionals is a professional organization whose membership consists of faculty, staff and technical service personnel. PSEOP is dedicated to promoting professional development among Penn State's office employees. For more information, contact membership coordinator **Sandy McClain** (sm4@omnibus.ce.psu.edu or (814) 865-5403).

Dial-up changes

The Office of Telecommunications, in conjunction with the Center for Academic Computing, will be upgrading the dial-up capabilities in place at 13 campuses to provide faster, more reliable modem dial-up to Internet access services. These upgrades will allow for faster access speeds and decrease the possibility of getting a busy tone upon dial-up. Seven campuses will receive new digital dial-up capability in the form of units supporting dial-up over ISDN lines. Six campuses will upgrade the speed and speed of their modem pools.

The seven locations involved in the ISDN upgrade are: Altoona, Abington, Delaware, Erie, Great Valley, Harrisburg, and York. The six campuses receiving additional higher speed modems are: Allentown, DuBois, Fayette, New Kensington, Schuylkill and Shenango.

Between now and the end of spring semester, the ISDN units will be installed at the seven campuses listed above. This change should be completely transparent to those campuses where the ISDN equipment will be installed on the same phone line as the current modem pool. However, at Abington, Erie, Harrisburg, Great Valley and York, the telephone number for dial-up service at those locations will change effective May 16. Until then, you should continue using the old modem number.

A list of campus modem numbers is provided on the Web at <http://cac.psu.edu/internet/dialup.html>

New travel service Web site

A significant collection of travel-related information and tools is available at Penn State's Travel Services site. Some of the features include:

- A listing of Penn State contract travel agencies along with a travel profiler function that allows travelers to forward their travel preferences electronically to selected agencies;

- A listing of Penn State contracted hotels/motels with links that in many cases allow travelers to check room availability;

- Links to Penn State's travel policies, forms and per diem rates.

- World times;

- Currency converters;

- Weather information and airport delays; and more.

This is the most comprehensive travel Web site in the Big 10. The Travel Services site can be found at <http://gurus.psu.edu/central/travel/>.

Expedite your first-class letter

There are two ways to save one to four days in delivery time on your 1-ounce to 2-ounce first-class letter:

- 1) Do not use staples or paper clips in the letter;
- 2) Type the address on your letter with a monospaced font such as Courier 10, Prestige Elite or Letter Gothic.

For more information on how to expedite your mail, please call **Gregg J. Asciano** at (814) 863-8153.

Geographic data on the Web

A wealth of digital data on the geography of Pennsylvania is now available on the Web, thanks to Pennsylvania Spatial Data Access (PASDA), a joint project of Penn State and the Pennsylvania Department of Environmental Protection.

Users can search for maps on the geology of Pennsylvania, networks of streams and roads within a specific county, and where recreational parks exist throughout the Commonwealth. The Web address is <http://www.pasda.psu.edu>. For those without Internet access, the system is available for use at the Penn State Libraries.

Penn State's Environmental Resources Research Institute has the lead responsibility for project management; the University Libraries' Maps Room is the point of contact for PASDA users and metadata preparation; and the Deasy GeoGraphics Laboratory, a unit of the Department of Geography, is contributing Web interface design and development of data search and delivery capabilities.

Leaving for the summer?

Whether you are off to the city or a dig on the plains, you can stay in touch with Penn State all summer through Newswire. If you have access to e-mail, you can receive daily news releases from the Department of Public Information as soon as they are prepared on issues such as the budget, new programs, upcoming events, major new appointments and faculty research. Most releases are also posted the same day on the University Relations home page at <http://www.psu.edu/ur/>.

Penn State Newswire has an easy-to-read text format with a list of stories at the top allowing readers to decide immediately what they want to read. Anyone connected to a modem can subscribe by sending an e-mail message to pat@psu.edu with your name and return e-mail address. You may unsubscribe at any time. For more information, contact **Bill Mahon** or **Christy Rambeau** at (814)-865-8157.

Tickets available

Tickets are available for the May 9 Penn State Forum presentation by **Ralph Gomory**, president of the Alfred P. Sloan Foundation, on "New Opportunities for Learning Outside the Classroom" at the Nittany Lion Inn. Lunch begins at 11:30 a.m. followed by the speech at noon. Tickets are \$10 and include lunch. Reservations can be made by calling (814) 865-7590, or stop by the Faculty Staff Club office in 110 HUB.

Awards

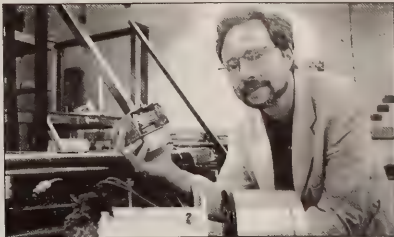
Discover Magazine honors two innovations

A prototype microwave rocket engine invented by **Michael M. Micci**, associate professor of aerospace engineering, and the largest optical telescope in the continental United States, invented by **Lawrence W. Ramsey** and **Daniel W. Weedman**, professors of astronomy and astrophysics, are among 35 innovations being honored by *Discover* magazine.

The two Penn State inventions are among four awards in the Aviation and Aerospace category of the 1997 *Discover* Magazine Awards for Technological Innovation. Nearly 4,000 innovators from around the world were invited to participate in the awards competition.

Micci's invention, the Microwave Arcjet Thruster, will be on display at *Discover* magazine's interactive showcase at Innovations, a pavilion in Walt Disney World's Epcot Center. Ramsey's and Weedman's invention, the William P. Hobby-Robert E. Eberly Telescope, will be commissioned in late 1997 at the McDonald Observatory in a remote area of western Texas known for having the darkest skies in North America. Both inventions will be featured in the July issue of *Discover* magazine, which hits the newsstands in mid-June.

Micci and his team developed the innovative rocket propulsion system using parts from an ordinary 1000W kitchen microwave oven. It shows promise as a cheaper, safer thruster for positioning and maneuvering satellites in space. The invention has the



Honored

Michael M. Micci, associate professor of aerospace engineering, won a *Discover* Magazine award for his prototype microwave rocket.

potential to affect technology that uses satellite communications, reducing rates on long-distance telephone calls, television satellite broadcasts and direct television. His commercial partner in the Microwave Arcjet Thruster project is Research Support Instruments Inc., of Lanham, Md. (Micci's invention was featured on the Sept. 26, 1996, Research page of *Intercom*.)

Ramsey and Weedman invented the concept for the Hobby-Eberly telescope in 1983 at Penn State. Its innovative design resulted in construction costs approximately 20 percent less than those of other telescopes in its class. A number of features allow the 24-ton primary mirror to remain stationary while observing an object, eliminating the

need for a highly complex mirror-support system. The mirror, which is 36-feet across and one of the largest of any optical telescope in the world, is made up of 91 identical pieces that were mass produced — another cost-saving aspect of the design. The telescope was built by a partnership involving The University of Texas at Austin, Penn State, Stanford University and the German universities of Göttingen and Munich.

Ramsey and **Thomas Sebring**, project manager for the Hobby-Eberly Telescope, are named as recipients of the *Discover* award. (Ramsey's and Weedman's inventions were featured



Cited

The Hobby-Eberly Telescope, the largest optical telescope in the United States, was invented by **Lawrence W. Ramsey** and **Daniel W. Weedman**. It won an innovation award from *Discover* Magazine.

in the April 21, 1994, and Jan. 15, 1997, issues of *Intercom*.)

According to the Walt Disney Co., which publishes *Discover*, the awards "recognize breakthrough technologies and honor the men and women whose creative genius improves the quality of everyday life."



Photo: Howard Nuornberger

Daughters at work

Gary Peterson, manager of agricultural short courses, brought his daughter Pamela, center, to work with him on the University Park campus during the fifth annual "Take Our Daughters to Work Day" Thursday, April 24. It was there that Pamela Peterson had the opportunity to work on assembling a lawn mower-type small engine with Julie Masser, right, a freshman engineering student and apprentice peer instructor in the Women in Engineering Program. Peterson was one of about a dozen daughters to participate in Women in Engineering Program activities set up by Andrea Joyce, a junior mechanical engineering student and program intern and instructor.

Roughly 255 people participated in "Take Our Daughters to Work Day" activities at University Park, giving girls a first-hand look at what occurs in the workplace and exposing them to the wide range of options open to them. The Women in Engineering Program project was one of 50 "career sites" at University Park to open its facilities and resources for the occasion.

"Take Our Daughters to Work Day" is a national event sponsored by the Ms. Foundation. At the University, the event is sponsored by the Commission for Women.

Pattee Library expansion has officially begun

Host of dignitaries attends groundbreaking ceremony for Paterno Library

When the time came for the beginning of the Paterno Library groundbreaking ceremony April 25, the fine drizzle stopped, the clouds parted and the sun shone brightly on Joe and Sue Paterno, state and University officials and a crowd of 200 or so donors and onlookers on the mall below Pattee Library.

"It's a great day, but it's more than that," Paterno said. "It's the start of making Pattee one of the top 10 libraries."

With its capabilities for housing traditional library materials as well as state-of-the-art information technology, Paterno said the library addition will be a "symbol to the world that Penn State will attain its great destiny. We are determined that Penn State will provide not the 11th best education in the state, nor the sixth best education in the Big Ten, but the very best education to all who want it."

Sue Paterno—who first met Joe in Pattee Library—said that the library is more than bricks and mortar. "The library is the heart and soul of the University," she said. "It opens the doors to learning." When the project is complete and the dust subsides, she said, the new library will be "a gracious lady to welcome all to the pursuit of learning."

The Paternos were the headliners at the groundbreaking ceremony, which also included Gov. Tom Ridge; other state and local officials and legislators; President Graham B. Spanier; Board of Trustees President Jesse Arnette; Gloria St. Clair, interim dean of the University Libraries; and other campaign supporters.

The \$26.5 million Paterno Library project will nearly double the size of Pattee Library and renovate existing space. The five-story expansion, set for completion in fall 1999, will add 110,000 square feet of floor space to the 130,000 square feet in Pattee's west, central and east wings.

The project is being funded by \$14.8 million from the state and \$11.7 million raised by The Campaign for the Library, co-chaired by the Paternos, who included in their efforts a personal contribution of \$250,000.

When complete, the Pattee and Paterno libraries will include subject libraries with specialized holdings in life sciences, humanities,



Dedicating their namesake

Joe and Sue Paterno were at the heart of the fund-raising drive for the Pattee Library expansion, and the addition is being named for the couple. Their efforts as co-chairs of the committee, plus their personal donation of \$250,000, helped the project become a reality.

Photo: Greg Grieco

social sciences, business and education, a new library for special collections and the latest in information retrieval and telecommunications technologies.

Ridge said that just as plants need the nurturing touch of the gardener, libraries need the nurturing touch of patrons. "That's where Joe and Sue Paterno stepped in," he said. "For decades, the Paternos have been an important part of the Penn State family. From the gridiron to the classroom, the name Paterno is synonymous with the excellence the world expects from the Nittany Lions, wherever they may be."

Spanier, calling the Paterno Library a significant addition to the campus, the Penn State system, and the entire state, thanked the campaign participants for supporting the expansion and sharing the library's benefits with others. "It is truly a facility for all of the Commonwealth," he said.

Following the ceremony, the Paternos, Ridge, Spanier, Arnette and St. Clair walked to the construction site near the east wing of Pattee, clambered aboard a piece of heavy equipment, and expertly picked up and dumped several scoops of earth.



Envisioning the future

State Sen. Robert C. Jubelirer (R-30), left, Gov. Tom Ridge and President Graham B. Spanier talk about changes in store for Pattee Library.

Photo: Greg Grieco

Shuttle

continued from page 1

and is one of only a handful of university-based researchers to ever fly on a shuttle mission.

"It's still one of those 'pinch me' kind of things," Pawelczyk said during a telephone interview from his office at the Lyndon B. Johnson Space Center in Houston. "I don't think the reality of it has set in, but it is such a pleasure to be able to represent the University in this way and it's such an incredible opportunity for research."

Thirty-six-year-old Pawelczyk and Jay C. Buckley from Dartmouth Medical School were named by NASA on April 28 from a pool of four potential researchers who will board the 16-day Neurolab mission. The two men will fly with five career astronauts to make up the seven-member crew on the shuttle scheduled to launch on April 2, 1998.

Load specialists are responsible for conducting experiments on behalf of about two dozen researchers divided among eight teams. The specialists oversee all of the experiments on the flight, performing the necessary "hands-on work and making decisions" for the

Earthbound investigators.

The Neurolab mission, a joint venture of six space agencies and seven U.S. research agencies, will focus on neuroscience research and will include 26 projects—including one on which Pawelczyk is a co-investigator—from a variety of institutions and organizations. It is one of several shuttle flights dedicated to life science research.

Pawelczyk, who has been involved in NASA-related research for a number of years, has spent the past year training at the space center and learning intimate details about each of the experiments that will be on his space flight. He has been involved with space flight "a series of mini sabbaticals" traveling to various laboratories to gain in-depth knowledge about the projects.

Pawelczyk's own experiment that will be on board the flight involves studying the change in blood pressure that occurs with space flight. About two-thirds of the individual returns from space experience an inability to stand or an unsteadiness for several hours. His research will look at the changes in vascular resistance and the release of norepinephrine—the predominant hormone involved in the constriction of

blood vessels—in the microgravity environment of space.

"There is such a variety of experiments going on this flight," he said. "As an investigator, it is a tremendous opportunity to do field research in probably the most unique environment that anyone could ask for. As a payload specialist, it's an extraordinary opportunity to work with outstanding researchers from nine different countries and absorb all their wealth of knowledge and experience and techniques that I hope to transfer to my own research on the ground. This has been a dream of mine for years."

Pawelczyk said when he was first told of his appointment to the mission, he thought that immediately surfaced in his mind was "Aaaaah. Finally!"

"I've been training for a year and it's nice to have this milestone of progress so we can continue into the next segment of our training," he said. "Over the next year, I will learn more about the shuttle operation—things like what goes on before a launch or what happens when the main engines are cut off."

But Pawelczyk said the best response to his being named to the space crew actually came from his six-year-old daughter who told her dad to "make

sure he took good pictures of all the planets for her."

Pawelczyk has already started physical training for his mission. He will begin experiencing microgravity this week by being a passenger on an aircraft that will perform dozens of parabolic maneuvers. In January, he went through water-survival training.

But as for the danger of entering space, Pawelczyk said there is no danger.

"I think it's important for people to discriminate between risk and danger," he said. "We all assume risk in life. You have some knowledge about those risks and you decide it's a tolerable risk. Things become dangerous when you don't know the risks and you don't plan contingencies. I'm comfortable with this risk."

The Penn State faculty member said that the most important lesson his recent NASA stint has reaffirmed for him is the need to be a "renaissance researcher."

"It's so important to try to gain a diversity of skills, a diversity of knowledge," he said. "I think that by being open to things and curious, that's how you gain those serendipitous findings that have become so important in research."

Early menopause and stress may be related

By ANDREA ELYSE MESSER
Public Information

Women in developing countries who reach menopause early may be experiencing the same condition as anorexics and runners, rather than the natural progression of aging, according to a researcher.

"Rural women in developing countries tend to experience menopause about eight years earlier than in developed countries," Darryl Holman, postdoctoral fellow in Penn State's Population Research Institute, said. "On average, American women experience menopause at about 51 years old, while rural Bangladeshi women, for example, are about 43 years old at menopause."

Holman proposes two possible explanations. Rural women in developing countries naturally enter menopause earlier, or the apparent earlier age of menopause is a stress-related shutdown of the ovarian cycling. He notes that urban women in developing countries tend to have a later age of menopause.

"By the time women in developing countries reach their early 40s, they have had repeated pregnancies, breast-fed for most of their adult lives and have a relatively high disease load," Holman said.

"These women have very low body mass, and their amenorrhea — absence of menstruation — may be due to the same things that affect runners and anorexics."

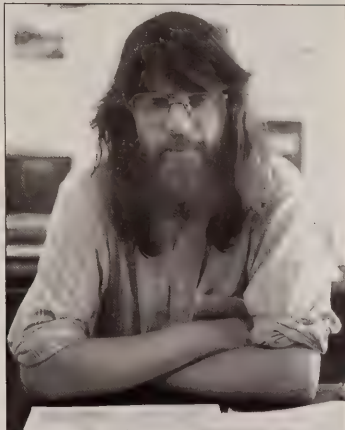
Menopause naturally occurs when a woman's ovaries have no follicles left that can develop to release fertile eggs. Because women have a set number of follicles that begin to undergo atresia — degeneration and reabsorption — in the fetus, when all the follicles are used up, they enter menopause.

Holman does not think that rural women in developing countries are born with fewer follicles, which would account for an earlier menopause. Rather, he thinks that these women are undergoing a variety of stresses that combined, stop the normal cycle of hormones. Runners and anorexics frequently experience amenorrhea due to a combination of low body weight and stress.

"Menopause is characterized biochemically by high levels of two hormones, luteinizing hormone (LH) and follicle stimulating hormone (FSH) and low levels of estrogen," Holman said. "Amenorrhea is characterized by low levels of LH and FSH but may have normal levels of estrogen."

Holman notes that improved nutrition, better medical care and fewer pregnancies will all occur as these countries develop, and the age at menopause will increase approaching that of the United States.

"One consideration of this phenomenon is that women will need to practice birth control later in their lives," Holman said.



Darryl Holman, postdoctoral fellow in the Population Research Institute, has found that the earlier onset of menopause in women in developing countries may not be due to the natural progression of aging.

Photo: Greg Grieco



Part of the collection

This illustration is among the Latin American works that will be preserved using the \$59,000 grant from the National Endowment for the Humanities.

University Libraries receive NEH grant to preserve Sanchez Literature Collection

The University Libraries, one of nine participating CIC libraries, will receive a \$59,000 grant to preserve a portion of the Luis Albert Sanchez (Latin American) Literature Collection. The grant is part of a National Endowment for the Humanities (NEH) grant to the Committee on Institutional Cooperation (CIC).

Luis Albert Sanchez (1900-1994), one of Peru's most respected intellectuals and politicians, was educated at the National University of San Marcos in Lima and earned his degree in literature and law. He later pursued a doctorate in history and philosophy and letters at the University of Lima and a second doctorate at the University of Chile. A scholar and statesman with wide-ranging interests, Sanchez was among the intellectual elite of Latin

America for many decades.

And, most significantly for literary scholarship, he collected a very large library representing the Latin American literature of his generation. The holdings of the Sanchez collection are particularly strong in Chile, Mexico, Peru and the Spanish-speaking Caribbean countries.

A team of librarians headed by University Libraries preservation Librarian Sue Kellerman, selected 600 volumes representing 570 titles from the collection for microfilming.

"Many of the works are now in deteriorating condition, and a number of them are in urgent need of preservation filming," Kellerman said. "Preserving these important Latin American works represents a major service to the 20th-century Latin Ameri-

can literary scholarship and research worldwide."

During this two-year national project, the nine libraries will preserve some 8,743 volumes on microfilm and an additional 699 original volumes will receive conservation treatment.

Together the materials preserved through this project represent carefully selected and broadly based records of the essential ideas and expressions across a range of subject areas (including American fiction, German literature, African literature, and international history).

Information about the Sanchez collection preserved in microfilm will be distributed and made available through the University Libraries' online catalog and national bibliographic utilities.



Nice digs

Graduate student in soils Emily Majcher is showing other students in her Soils 101 class how to do soil profile descriptions. The class meets in the fields near the University Salvage and Surplus warehouse. Classes end May 2.

Photo: Greg Grieco

News in Brief

Red Cross seeks focus group members

The American Red Cross is currently searching for University employees interested in being part of a new Blood Services Focus Group, to share ideas for further development of faculty/staff participation in the campus blood program. Individuals who have received blood and are willing to describe their experience with others also are sought. If interested in helping, please contact **Connie Schroeder**, American Red Cross blood services campus coordinator, at (814) 237-2713.

Upcoming HRDC courses

Call the Human Resource Development Center at (814) 865-8216 to register for the following programs:

■ Avoiding Burnout: Balancing Your Life at Home and Your Career

May 13, 8:30-11:30 a.m., 319 Rider Building. Cost: \$35.

■ Marketing Communications for Beginners

Learn marketing terms and definitions, campaign strategies and tactics and marketing tools to enable you to develop an effective marketing communications plan. May 15, 1:30-4:30 p.m., 319 Rider Building. Cost: \$35.

■ Movin' On: Developing Yourself for a New Position

May 15 and 22, 11:30 a.m.-1:30 p.m., 319 Rider Building. Cost: \$35.

■ Proofomatics

Reduce errors in the manuscripts you produce with a series of scanning techniques which will improve your proofreading skills. May 15, 8:30-10:30 a.m., 319 Rider Building. Cost: \$120.

Promotions

Staff

Pamela A. Albert, applications systems analyst at The Hershey Medical Center.

Jodie A. Auman, staff assistant VI in College of the Liberal Arts.

James B. Babcock, cinematographer / videographer III in Continuing and Distance Education.

Rebecca L. Barnhart, staff assistant VI in Division of Development and Alumni Relations.

Kimberly K. Beard, medical review coordinator at The Hershey Medical Center.

Going away this summer? Take Intercom along



Going on sabbatical, or just away for the summer? Now you can stay in touch with Penn State through the

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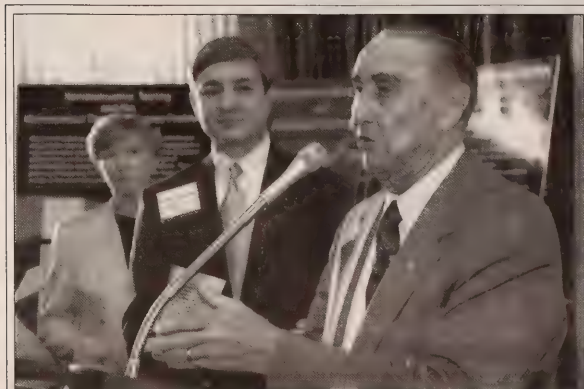
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Touting research

Strom Thurmond, the Republican congressman from South Carolina, talks about the importance of investing in research at all levels. University President Graham B. Spanier, who emceed the three-hour event on Capitol Hill, listens while waiting his turn to speak.

Photo: Greg Gresco

Spanier urges Congress to keep supporting funding for research

By **BILL MAHON**
Public Information

President **Graham B. Spanier** was back before Congress this month to emcee a demonstration of defense research taking place at universities across the country.

In April, Spanier testified before the House Subcommittee on Basic Research about Penn State's efforts to spearhead the Internet 2 effort among approximately 100 universities. In his most recent visit on May 7, members of the House and Senate—as well as officials from the Pentagon—attended a three-hour interactive demonstration in the Cannon

Caucus Room on Capitol Hill. The event, sponsored by the American Association of Universities, showcased research projects at approximately 30 major U.S. universities.

In addition to Spanier, other Penn State representatives participated, including several faculty, a graduate student and **Rodney Erickson**, vice president for research and dean of the Graduate School. "Our nation needs to maintain its investment in fundamental research, even though the payoffs may not be known today," Spanier told the group. "When we see how important technologies like the Internet, Stealth, night vision and the Global

See "Defense funding" on page 7

State budget gives 3 percent boost

Editor's note: Although the state's general budget was approved and signed on May 6 (the swiftest passage of the state budget in 35 years), at press time, the governor had not yet signed the Non-preferred Appropriations Budget, which is where Penn State's funding resides. Gov. Ridge was expected to sign before today's publication date.

By **LISA M. ROSELLINI**
Public Information

When the final numbers came in on the state's 1997-98 budget, higher education in Pennsylvania had received a 3 percent boost—or \$32.8 million—over 1996-97 figures, an appropriation Penn State's president calls a "major improvement."

The 1997-98 state budget, approved last week, earmarks about \$290 million for Penn State including an additional \$2.8 million increase tacked on by the Legislature.

"Although this is less than our requested amount of \$305 million, it is certainly a major improvement over last year," President **Graham B. Spanier** said. "The numbers we see here are substantially better

See "Budget" on page 3

University spells out five-year capital plan

For the first time, Penn State is able to map out a systematic long-range construction plan to meet its most pressing academic facilities needs because of a new partnership with the Commonwealth that puts capital funding for Penn State on a regular five-year basis.

The University will now be able to undertake a number of significant construction projects that will have a profound impact on the educational programs and quality of life at many Penn State campuses.

At a special briefing yesterday for about 100 University administrators, faculty and community leaders, President **Graham B. Spanier** was scheduled to give details on how \$200 million from the Commonwealth will be used. (This account was written as the

See "Projects" on page 3

Inside



On the road again

About 70 faculty hit the road again May 12 and 13 in the second annual Road Scholars tour sponsored by the president. For more information on the sites, see page 2.



Research

The device pictured here could one day power your car, stabilize the electricity in your house or run space satellites. To find out more, please see Focus on Research on page 15.

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Road Scholars II

Faculty take to highway to learn about University's impact

Editor's note: *Intercom's* associate editor climbed aboard a bus this year with about 70 faculty members in tour to get a first-hand view of the popular Road Scholars tour. In order to make press time, this story was filed from the road early Monday afternoon, May 12.

By ANNEMARIE MOUNTZ
 Public Information

It's 7:15 a.m. Most faculty are getting ready to start the day. But roughly 70 sleepy-eyed people are gathering around tables for breakfast at the Penn State Conference Center Hotel, ready to embark upon an adventure that will likely alter their perceptions of the University. Despite the early hour, there is a buzz of anticipation in the air, as the group prepares to begin the second annual Road Scholars tour.

Penn State touches a great majority of Pennsylvanians in many ways, and for the second year in a row recently hired faculty have the opportunity to learn for themselves just how far the University's teaching, research and outreach extend, while at the same time learning more about each other.

Looking around the crowded room, it is easy for President **Graham B. Spanier** to see that Road Scholars II is as popular as the original tour, which took place a year ago.

"I organized the tour last year after my own statewide tour to all the campuses," Spanier said. "It's important that faculty be acquainted with the Commonwealth campuses and with the various regions served by the University. The best way to do this is for them to see the impact the University has on the state first-hand. I received so many positive comments after last year's tour, I decided to make it an annual event."

Last year's trip concentrated on the eastern portion of the state. This year, participants are touring western Pennsylvania, with stops scheduled at Fayette, Beaver and Altoona campuses and various sites in Imber, Ohio, Pittsburgh and Worthington.

Faculty members wasted no time getting to know others on the buses. Everyone seemed anxious to learn as much as they could about their fellow faculty members.

The first stop was Singing Brook Farm in Imber, owned by Board of Trustees member **Obbie Snider**. Snider's high-tech farm is dedicated to production of Holstein dairy cattle for selective breeding, and has benefited greatly from research done at Penn State.

"It's really nice to be able to step back and see the big picture," **Ike Shibley**, assistant professor of chemistry, said. "I get so involved in the day-to-day routine, I sometimes don't think about how exciting it is to be a part of Penn State. Seeing the impact of faculty research gives me a sense of pride in both Pennsylvania and Penn State. I had inklings of how



Early departure

Mary Lou Lebo, field resource instructor, waited Monday along with about 70 new faculty to a bus bound for western Pennsylvania as part of the Road Scholars II tour.

Photo: Greg Gineco

involved the University was in the state, but never realized just how big a push there was to incorporate the University into the state. I think that's part of the reason Penn State has such a good reputation in Pennsylvania."

It's difficult to venture to any part of the state or in any discipline that has not been touched by Penn State. Take, for example, Fallingwater, the tour's second stop. The architectural masterpiece created by Frank Lloyd Wright is currently undergoing extensive renovation by L.D. Astorino and Associates of Pittsburgh. Architect **Louis D. Astorino** is a 1969 graduate of Penn State with a bachelor of arts degree in architecture. In 1989, the company president received the College of Arts and Architecture Alumni Achievement Award. In 1991 he was named an Alumni Fellow.

"The fact that a distinguished alumnus is in charge of the renovations of this famous architectural landmark speaks well of Penn State," **Mary Lou Lebo**, field resource instructor, said. "Penn State is top of the line as far as universities go. A Penn State education opens many doors both in Pennsylvania and beyond."

The tour also was scheduled to take faculty to

some of the University's western Pennsylvania locations. At Penn State Fayette, **August Simonsen**, campus executive officer, planned to talk about the campus' nursing degree program and health care in the community; and at Penn State Beaver, tour participants were to learn more about the campus' interaction with the surrounding community through the Cooperative Extension Office in Allegheny County. The office has worked closely with youth in the region.

Connie Flanagan, associate professor of agricultural extension education, is involved in research in adolescent development and has worked a bit with the office.

"Extension has to do with more than agricultural products. A huge part of it is educating the youth and helping them learn to make decisions," she said. "Education improves the quality of life, and outreach education enables communities to see and use their own resources."

Flanagan stressed that outreach is more than agriculture. "I hope faculty across all disciplines see their roles in outreach," she said.

Next on the agenda was a tour of the H.J. Heinz Co. manufacturing complex in Pittsburgh. Heinz, a global provider of processed food products and nutritional services with operating companies worldwide, started as a small company, delivering its products in horse-drawn wagons to grocers in and around Pittsburgh.

Faculty also were to be given the opportunity to interact with alumni and Board of Trustees members over lunch during a Pittsburgh riverboat tour on a Gateway Clipper vessel.

From there, the tour was scheduled to move on to Creekside Mushrooms in Worthington, another business that has benefited from Penn State research and outreach. **Roger Czaploole**, the general partner of this mushroom farm, is a Penn State alumnus, and his father, daughter and son also are Penn States. The farm, which ships more than a half million pounds of mushrooms per week and produces spawn for mushroom facilities around the world, regularly uses information from the University's Cooperative Extension Office in Armstrong County.

Near the end of the tour, participants were to visit Penn State Altoona, one of the locations that recently was made a four-year college.

Overall, tourgoers hoped to use this opportunity to be able to see a broader view of the University.

"This tour is a good way to see Penn State at work throughout the state," **Dr. Michael Flanagan**, assistant professor of family and community medicine, said. Flanagan, who has been with the University just shy of a year, graduated from the University of Maryland.

"I'm not too familiar with Pennsylvania, so this is a good way to see the state as well."

Promotions

Staff

Deanna L. Bennett, orthopedics billing coordinator at The Hershey Medical Center.
Roberta G. Calcaro, staff assistant VII at The Hershey Medical Center.
Gerald V. Ciolkosz, senior systems analyst in College of Engineering.
Michael P. Conroy, senior purchasing agent in Business Services.

Rhonda L. Decker, administrative assistant in College of the Liberal Arts.
Melissa H. Ducceschi, technician-research at The Hershey Medical Center.
Brenda J. Eisenhour, staff assistant VI at The Hershey Medical Center.
Debbie S. Elder, staff assistant VI in Applied Research Laboratory.
Mary J. Fisher, administrative assistant IV in Office of Budget and Resource Analysis.

Alice R. Fogg, facilities coordinator in College of the Liberal Arts.
Hugh W. Fry, manager, Reporting Systems in Office of Budget and Resource Analysis.
Mary Jane Gawryla, administrative assistant II in College of Engineering.
Charles D. Gill, science and research information officer in College of Agricultural Sciences.
Dorothy E. Greer, staff assistant VI in Office of Budget and Resource Analysis.

Deborah M. Harkleroad, staff assistant VI at Penn State Great Valley.
Tammy L. Harter, staff assistant V in Business Services.
Leslie S. Hayes, senior employment/recruitment coordinator in Office of Human Resources.
Janell E. Heffner, technician-research at The Hershey Medical Center.
Lee A. Hess, senior budget planning specialist in Office of Budget and Resource Analysis.

Budget

continued from page 1

than they have been in the past and they will help us address some critical needs. The governor proposed a 2 percent increase and the Legislature followed through with an additional 1 percent increase across the board."

"We'll have to work to make sure that the additional 1 percent increase from the Legislature ... becomes a long-term funding commitment."

— Richard DiEugenio
Governmental Affairs

tuition. The Board of Trustees will set tuition rates at its July meeting.

In addition to the more than \$1 billion allocated for the four state-related universities and the State System of Higher Education, the budget also earmarks \$161.9 million for community colleges, including \$5 million targeted for the purchase of instructional equipment.

Public and private colleges and universities may tap into about \$6 million in equipment grants. In addition, the state's fiscal blueprint lays out a \$16.3

million increase to the Pennsylvania Higher Education Assistance Agency (PHEAA), which will provide more financial assistance to students. For Penn State, there is also additional funding found in various line items throughout the 218-page budget, such as money designated for Regional Cancer Institutes and Poison Control Centers—which will go to The Hershey Medical Center; and the Ben Franklin Partnership program, in which Penn State is a major participant.

Agricultural extension will receive \$22.5 million, a 3.3 percent increase over last year, and agricultural research gained 3.5 percent for a funding level of almost \$21 million.

"We'll have to work to make sure that the additional 1 percent increase from the Legislature that was added for the coming year becomes a long-term funding commitment," Richard DiEugenio, special assistant to the president for Governmental Affairs, said. "Right now, that additional 1 percent added by the Legislature is not built into our base."

DiEugenio said he was pleased at the strong bipartisan consensus in both the House and the Senate on the need to increase funding for higher education.

In all areas, the 1997-98 state fiscal plan adds about \$615 million in spending—a 3.7 percent increase over 1996-97 levels—and cuts taxes >by \$165 million. The new budget also calls for reserving \$179 million into the state's Rainy Day Fund, a savings vehicle for the Commonwealth. Before the budget was settled, Pennsylvania's coffers held \$524 million in surplus funds.

Bookshelf

Thomas W. Benson, the Edwin Erle Sparks professor of rhetoric in the Department of Speech Communication, is editor of the book *Rhetoric and Political Culture in 19th-Century America* published by Michigan State University Press as part of its series in rhetoric and public affairs, edited by Martin Medhurst of Texas A&M University.

The book offers a series of rhetorical analyses of major 19th-century political texts, including Daniel Webster's eulogy of Jefferson and Adams; Frederick Douglass's "What to the Slave is the Fourth of July?"; the intertextual appropriations of the Declaration of Independence in William Lloyd Garrison's 1833 Declaration of Sentiments of the American Anti-Slavery Society and the 1848 Declaration of Sentiments of the Seneca Falls Woman's Rights Convention; and the use of Lincoln by Henry Grady, Frederick Douglass and Jane Addams. Associate professor of speech communication **Stephen H. Browne** contributed one of the chapters on Daniel Webster.

Robert MacDonald, who managed the Penn State-Behrend Bookstore for 25 years, has co-authored a book, *Home Port Erie: Voices of Silent Images*. The book, drawn from MacDonald's collection of photos, clippings, artifacts and stories, brings to life photos of boat builders, dock laborers, shipwrecks, captains and crews. **David Frew** is co-author.

Projects

continued from page 1

Intercom went to press.)

In March, Gov. Tom Ridge announced that Penn State would receive \$40 million a year for five years for Department of General Services construction projects at several Penn State campuses.

This commitment replaces a scattered approach in which Penn State never knew when construction funds for any particular project would be released from the state. Knowing that the funds will be available on a regular schedule gives the University a tremendous opportunity to replace, renovate and build new facilities according to a logical plan.

Knowing what to expect from Harrisburg also allows the University to engage in long-term planning and to combine the state funds with internal University funds, funds raised through philanthropy and funds from self-supporting operations for the maximum benefit.

The state-funded capital budget process can take years. Once projects are submitted they must be approved by the House and Senate before going to the governor's office, and once approved, actual funding can be delayed for years, according to state budget priorities. Currently, Penn State has about \$380 million worth of approved capital projects.

The five-year schedule for Penn State's state-funded new buildings, major renovations and upgrades to utility systems include classroom

buildings, research centers, telecommunications facilities and libraries. Some of these projects will also be paid in part by University funds. In addition, Penn State will begin a number of construction projects that will be funded entirely by University or private resources. In a year-by-year summary, projects include:

- 1997-98: Two new buildings on West Campus selected for the colleges of Engineering and Earth and Mineral Sciences, a general purpose classroom addition to the Thomas Building and renovations to Weaver and Patterson buildings at University Park; a multi-purpose facility at Penn State Behrend and heating system work at Penn State Harrisburg. Penn State-funded projects include residence hall facilities at Penn State Berks and Penn State Behrend, several Intercollegiate Athletic Facilities, the HUB/Robeson Center and a new child care facility at University Park.

- 1998-99: Design work for a science/chemistry building, utility work for the West Campus and telecommunications at University Park and the library at Penn State Harrisburg. Penn State-funded projects include graduate student housing at Penn State Harrisburg, residence hall construction at Penn State Berks, and family health center facilities at The Hershey Medical Center.

- 1999-2000: Phase one construction of the science/chemistry building and a library depositary at Uni-



Slated for work

Weaver Building on the University Park campus is scheduled for renovations in 1997-98 as part of a new five-year capital improvement plan.

Photo: Greg Grieco

versity Park, a new classroom and electrical upgrade work at Penn State Altoona. Penn State-funded projects include graduate housing and intercollegiate athletic facilities at University Park, a residence hall at Penn State Behrend and specialty care clinic at The Hershey Medical Center.

- 2000-01: Renovations of Chadee Laboratory and power plant improvements at University Park, a

library and classroom building at Penn State York and central energy system work at Hershey Medical Center. Penn State-funded projects include general capital improvement projects

- 2001-02: Renovations to Sackett, the engineering units, and Burrows, renovations and an addition to Borland Laboratory, and a new forestry building at University Park. Penn State-funded projects include general capital improvement projects.

LECTURES

Conference to explore applications of "Best Practices in Diversity"

Without substantial changes in employee relations, American industry, labor and even higher education face a bumpy ride as the shift to a multicultural work environment accelerates over the next 20 years.

Anticipating change, Penn State, the Big Ten Universities, CEOs of major corporations and organized labor are coming together at Penn State this fall to share philosophies, strategies and new initiatives at The Best Practices in Diversity Conference: Exploring Practical Applications for the 21st Century, Sept. 18-20.

In the past several years, some private corporations and academic institutions have made noticeable progress in harnessing the values of diversity in their recruiting strategies, improving the work climate and incorporating diversity into the fabric of their organizational structure. Others, because of the nature of their product or services or the history of their institutions have only just begun to look ahead," said **Thomas Poole**, acting deputy vice provost for educational equity and one of the conference organizers at Penn State. "Formally integrating diversity into the strategic planning process has become imperative for academic, corporate and labor organizations alike."

Taking this charge seriously, conference planners have scheduled three national leaders in workplace issues to speak: **R. Roosevelt Thomas Jr.**, founder and president of the American Institute for Managing Diversity and author of three books on diversity in the workplace, will give the keynote address; **Deval L. Patrick**, former assistant attorney general for civil rights at the U.S. Department of Justice, will give the major address on hiring, retention and promotion practices, which will be followed by a panel discussion of practices that work and those that don't; and **Herbert Z. Wong**, an industrial and organizational psychologist and a consultant on multicultural leadership strategies, will give an address on diversity training and programming initiatives, also followed by a panel discussion.

Other sessions will focus on practical strategies for achieving ethnic and racial diversity; gender; disability issues; international and cross-cultural matters; gay, lesbian and bisexual topics; and age. A special session is also scheduled on industry expectations of college graduates.

Registration for the three-day conference is now open. Top management and front-line practitioners in industry, labor and education are expected to attend. The conference, a continuing and distance education service of Penn State's Commission on Racial and Ethnic Diversity and the College of Education in collaboration with the Committee on Institutional Cooperation, will be held at the Penn State Conference Center Hotel at University Park.

For more information and to register, visit the Best Practices in Diversity Web site at <http://www.cde.psu.edu/C&R/BestPracticesinDiversity/>.

You can also contact **Charles Clark** about program content at (814) 949-5065 or **Roberta Moore** for registration at (814) 863-5120 or send your questions by e-mail to ConferenceInfo@cde.psu.edu.



R. ROOSEVELT THOMAS JR.



DEVAL L. PATRICK



HERBERT Z. WONG

Colombianist Congress to be at University Park

Penn State will be host for the 10th Congress of the Colombianists Association July 30 to Aug. 3. Gathering scholars from across the globe, the congress invites researchers to share their findings and celebrate South American culture. **Leon Lyday**, head of the Department of Spanish, Italian and Portuguese, is current president of the Colombianists Association.

The Colombian ambassador to the United States, **Juan Carlos Esguerra**, will be the keynote speaker. Esguerra, who holds a master's degree in law from Cornell University, has been a professor of constitutional and administrative law in Colombia. He was a member of the National Assembly that enacted the 1991 Colombian constitution.

The 1997 congress will also feature Colombian storytelling and cinema and a tribute to **Manuel Zapata**, author on Colombia's African roots. Zapata's works, which have been translated into several languages, trace the slave trade in South America.

Musical productions will include the opening cantata "Santa Rosalia," by **Bruce Trinkle**, associate professor of music. The cantata was inspired by a painting by the same name by **Fernando Botero** that is owned by the Palmer Museum.

For more information about the congress, visit the Web at <http://www.cde.psu.edu/C&R/ColombianistsSymposium/>; or contact **Carmen R. Millan De Benavides** at (814) 865-0035; e-mail: dbm110@psu.edu.

Supply, demand of health care providers is focus of June 2 lecture

"Health Care Providers: Will the Demand Equal the Supply?" is the next lecture in the Prognosis for the Decade series sponsored by The Milton S. Hershhey Medical Center at the Penn State Downtown Center in Harrisburg.

Dr. Julian Biebuyck, associate dean for academic affairs and professor and chair of anesthesia at Hershhey, will discuss the forecast for health care providers on Monday, June 2, from 8 to 9 a.m. This lecture series is designed to inform members of the state Legislature, state government agencies and those involved in health care policy about projections on health and disease throughout Pennsylvania in the near future.

All sessions are free to the public, but registration is necessary. Call the center at (717) 785-0433.

Penn Staters

Paul Barsom, instructor of music, has been named the winner of the second bi-annual Allen E. Ostrander Trombone Composition Prize for his work "The Children of Jericho."

The award is given to the composer of a new work for trombone choir which makes a significant contribution to the literature. In addition to a cash award, "The Children of Jericho" will be published by Lyceum Press and performed by the Ithaca College Trombone Troupe.

Stan Diamond, manager of Audio-Visual Services, has been elected as a member-at-large to the Board of Directors for the Consortium of College and University Media Centers (CCUMC) and will serve from July 1 to June 30, 1999.

Hector Flores, professor of plant pathology and biotechnology and director of the Science, Technology and Society Program, and **Manfred Kroger**, professor of food science, presented a three-day National Chautauqua Short Course at the University of Puerto Rico in Mayaguez. The topics included "An Overview of STS and Teaching STS," "Food Technology and Issues in Biotech-Biodiversity," The Chautauqua/Faculty Development Program is supported by the National Science Foundation.

Penn State Hazleton physics Professor **David E. Miller** has been awarded a Fulbright grant to conduct research at the University of Warlaw, Poland, from April through July.

Miller is one of 1,600 U.S. grantees who will travel abroad for the 1996-97 academic year under the Fulbright Program, which is administered by the J. William Fulbright Foreign Scholarship Board and United States Information Agency.

Aldo Morales, associate professor of engineering at the Penn State DuBois campus, was recently honored by the Institute of Electrical and Electronic Engineers (IEEE) with the Best Paper Award at the International Asia Pacific Conference on Circuits and Systems in Seoul, Korea. Morales worked with **Sung-Jea Ko** of Korea University and doctoral students **Kyung-Hoon Lee** and **Byung-Tae Choi**, also of Korea University, on a joint paper titled "Basis Matrix Representation of Morphological Filters with N-Dimensional Structuring Elements." The findings could help create clearer pictures on computer screens.

Conference Center Hotel officially joins the fold

By ANNEMARIE MOUNTZ
Public Information

It's official. After a year of transition and planning, Penn State Hospitality Services, a division of auxiliary services, is now operating the Conference Center Hotel — formerly the Scanticon — at the Research Park. Signs at the hotel now display the new name. Conference center employees are wearing new name badges and telephones are answered using the new moniker.

Other changes will become evident more gradually.

"Perhaps the most important change is in the organizational structure," James W. Purdum, general manager of Hospitality Services at Penn State, said. "Where we once had completely separate structures at the Nittany Lion Inn and Scanticon, we now have a central management team under Hospitality Services for both facilities."

Purdum, who was general manager of the Nittany Lion Inn, is now responsible for both of the University's hotel facilities under the direction of Tom Gibson, assistant vice president of auxiliary services. Sam Glasgow, who had been general manager of Scanticon, has joined the Penn State team as associate general manager of the unit.

"We now have central sales offices," Purdum said. "There's a sin-



Creativity in action

Now that the Penn State Conference Center Hotel is part of Hospitality Services, it too may receive an edible masterpiece created by Heather Holland, assistant pastry chef.

Photo: Greg Grieco

gle director of human resources in Mike Conti and a single director of sales and marketing in Fran Levin. Each facility will provide an on-site catering sales professional. Heather Mader at the inn and Delyn Heisey at the hotel are both available for social and "walk-in" business. Judy Moyer is director of conference services for both locations and Jim Burkett, the director of property opera-

tions, oversees the physical plant, housekeeping and all components of facilities management for both the Nittany Lion Inn and the Conference Center Hotel. We also now have Jeff Kranch as the director of business services for the whole operation."

This centralized management team will be able to concentrate on meeting the customers' needs and book the guest, seminar or banquet room that

best fits each client's requirements.

"We are one unit with two locations," Purdum said. "Each location has its own flavor and its own strong points. We can now take full advantage of that in serving our guests."

While there are changes, many things will remain the same.

"Our focus remains on taking care of the guests," Purdum said.

All contracts, room reservations and seminars are managed with the former Penn State Scanticon will be honored by the Penn State Conference Center Hotel. In fact, many of the same people who were involved in making those commitments will still be there, working for Hospitality Services.

"A lot of people liked the food at Scanticon. That won't change, because Ken Stout, former chef at Scanticon, has joined Penn State Hospitality Services."

The Penn State Conference Center Hotel is the largest center of its kind in American higher education. Its merger with the Nittany Lion Inn under Penn State Hospitality Services provides the most comprehensive range of conference services available on any university campus in the country. The two facilities provide a total of 387 guest rooms, 75,000 square feet of meeting space, state-of-the-art educational technology and four restaurants.

Sloan Foundation president pushing for higher education to adopt large-scale use of distance learning techniques

By LISA M. ROSELLINI
Public Information

Urging audience members to break their "barriers of habit" and move toward using technology as a "cheaper, faster, more convenient way" to deliver education, the president of the Alfred P. Sloan Foundation said it's time for higher education to make the leap.

Ralph E. Gomory, speaking May 9 before the largest crowd to date for any of the six talks in the Penn State

Forum lecture series, said education is at the beginning of a significant transformation and the only way colleges and universities can make the transition is by moving from small scale experiments of distance learning to widespread use. The Sloan Foundation is a philanthropic non-profit institution that last year alone authorized \$53 million in grants to organizations and institutions for projects in areas covering technology, science, education and select national issues.

Gomory said the recent advances and the development of asynchronous learning networks (ALNs) have shown that people can learn through online courses and distance technology with roughly the same results as traditional classroom learning. In



Need more?

For the latest information on asynchronous learning networks (ALNs), go to the Web at <http://www.aln.org/>.

addition, these virtual classrooms have the potential to reach more people, offer more choices and provide more specialized courses taught by world renowned leaders in a particular field.

"ALNs give new meaning to the concept of lifelong learning," Gomory said. "It gives people access to new knowledge and makes learning available to anyone who wants to learn — anytime, anywhere. The greatest barrier is habit — of both the individual and the institution."

Gomory explained that both faculty and students fear the unknown. Instructors unfamiliar with the technology may not know how to prepare a course using the World Wide Web, e-mail or CD-ROM. Because of their lack of experience with the medium, many are not sure of what the content of such a course should include or how it should be conducted. On the other side of the desk sit students who are not sure of expectations or how to use the material provided. Gomory said the only way to overcome this unfamiliarity is through large-scale use.

"ALNs are going to strongly effect the structure and activities of higher education," Gomory said. "Faculty no longer have to be bound by the limita-

tions of being in class with students at the same time."

Gomory noted that despite the fact that higher education helped create much of the new technology, it has not been quick to embrace these high-tech methods. One online offering from Penn State through an on-demand ALN is a graduate acoustics certification that will be offered nationally in 1998. This five-course series is delivered via CD-ROMs especially created for the acoustics program, Web postings, Internet conferencing, books and e-mail. Penn State had already cut its teeth earlier using a Sloan Foundation grant that allowed the University to set up an ALN to deliver a tutoring system for engineers studying for their professional engineering certification.

"The electronic revolution that is now widely part of other industries has only at this point meant better typed essays in academia," Gomory joked.

However, Gomory said the Sloan Foundation is receiving more proposals for ALNs and has received one request for funding a virtual university.

Although there are many unanswered questions regarding online courses and the virtual university concept — like issues of access, how people will learn in the new environment, how courses should be taught, the need for human interaction, appropriate use of graphics, the right size class and economic aspects — one thing is clear: the revolution is now and ALNs are a powerful tool for higher education.

Awards

Associate professor named Guggenheim Fellow for 1997

Paul S. Weiss, associate professor of chemistry, has been selected as a Guggenheim Fellow by the John Simon Guggenheim Memorial Foundation.

According to the foundation, Guggenheim Fellows are selected on the basis of their unusually distinguished achievements and their exceptional promise for future accomplishments. Weiss was among 164 scientists, scholars and artists selected to receive the award in 1997 out of 2,876 candidates.

Weiss is known as an international leader in the fields of analytical and physical chemistry, surface chemistry and physics, and materials science. He set up a scanning tunneling microscopy (STM) laboratory at Penn State that he has used to produce "both scientifically interesting and technologically important conclusions to research questions that, in some cases, have remained unanswered for decades." Steven Weinreb, professor and head of the Department of Chemistry, said.

"The first microscope Weiss built for his laboratory is likely the finest STM in the world," Weinreb said. Weiss is using this instrument to understand surface chemistry and bonding of single molecules, surface motion and interactions on surfaces. Another microscope in his lab that Weiss invented, a tunable alternating current STM, is one of the few instruments in the world capable of recording chem-



PAUL S. WEISS

ically-specific atomic-resolution images and spectra on surfaces. Weiss is applying this new tool to a broad range of issues in chemistry, biology, physics, metrology and materials science.

The Guggenheim Fellowship will help to support Weiss's research on single biological molecules and biomolecular complexes. As a visiting scientist at the University of Washington this year, he and his collaborators in the Department of Molecular Biotechnology there have been developing a new set of tools for handling, manipulating and probing these molecules and complexes.

Weiss received bachelor's and master's degrees in chemistry from the Massachusetts Institute of Technology and a doctoral degree in physical chemistry from the University of California at Berkeley. He was a postdoctoral member of the technical staff of AT&T Bell Research Laboratories from 1986 to 1988 and a visiting scientist at the IBM Almaden Research Center from 1988 to 1989 before joining the Penn State faculty in 1989. He has received many awards and honors, including the National Science Foundation Presidential Young Investigator Award from 1991 through 1996, the B.F. Goodrich Collegiate Inventors Awards in 1994 and the Alfred P. Sloan Foundation Fellowship from 1995 to 1997.

Instructor honored with student appreciation award

Nichola Gultold, speech communications instructor at Penn State Lehigh Valley, was presented with the 1996-1997 Student Appreciation and Recognition Award.

The award is presented annually to a staff or faculty member chosen by the students for outstanding contributions on campus.

Gultold, a lecturer of speech communication at the campus since 1990, is a 1984 graduate of King's College and a 1988 graduate of Bloomsburg University, where she earned her master's degree in speech communication. Currently, she is pursuing a Ph.D. in speech communication at Penn State. Feminine political rhetoric is the focus of her research.

Gettysburg alumna wins Mitchell Award

L.J. Ruth of Gettysburg, a staunch supporter of Penn State and the College of the Liberal Arts, received the 1997 Philip Philip Mitchell Alumni Service Award.

The award, which is given each year to an alumnus, alumna or friend who has contributed significantly to Penn State by volunteering his or her time, talents and/or resources to the University, was established in 1980 by Elizabeth and Philip P. Mitchell. It consists of a certificate, a plaque prominently displayed in the Alumni Lounge with the name of each year's recipient and a cash gift from the Mitchells to the University for a purpose designated by the recipient.

A 1953 graduate of liberal arts, Ruth served as president of the Liberal Arts Alumni Society Board from 1979 to 1985, was a member of the college Alumni Council and received a Liberal Arts Service to Society Award for her community and alumni contributions. She served on the indoor sports complex fund committee and was one of the early champions of private fundraising for the University.

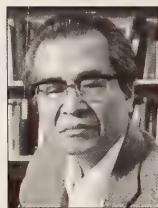
In recent years, she has contributed to special Alumni Board projects in the college, such as Career Day, and is currently a member of the Alumni Volunteer Admissions Program, inviting prospective students and families to her home and visiting schools. She is a member of the Nittany Lion Club and the Adams County Penn State Club.

In the community, Ruth has served on numerous committees and as president of the local chapter of the Pennsylvania Federation of Women's Clubs.

Institute director elected to National Academy of Sciences

Masatoshi Nei, Evan Pugh professor of biology and director of the Institute of Molecular Evolutionary Genetics, has been elected to the National Academy of Sciences. Membership in the National Academy of Sciences is considered one of the highest honors that can be accorded a U.S. scientist or engineer. Members of the National Academy assist the nation by addressing matters of importance in science and problems in which the insights of science are of central significance. Nei was selected in recognition of his distinguished and continuing achievements in original research.

Nei is the founding director of the Institute of Molecular Evolutionary Genetics, an interdisciplinary organization that fosters research on the evolution of genes and organisms. He is a world leader in evolutionary biology and has helped shape the way in which the field of molecular population genetics and evolution has developed. One of Nei's most valuable research contributions has been the development of a series of mathematical and statistical tools for the analysis and interpretation of genetic variation revealed by various molecular techniques. Nei's statistical method of genetic distance theory has been applied to the study of human



MASATOSHI NEI

ence in 1993.

Nei joined the Penn State faculty in 1990 as distinguished professor of biology and director of the institute. In 1994 he was named Evan Pugh professor of biology. Before joining Penn State, Nei held the position of professor of population genetics at the University of Texas at Houston from 1972 to

population diversity, human evolution and the evolution of immune system genes.

Nei was honored with the Kihara Prize of the Genetics Society of Japan and was elected a Fellow of the American Academy of Arts and Sciences in 1990. He was elected Fellow of the American Association for the Advancement of Science

in 1990. He earned a bachelor's degree in genetics from the Miyazaki University in Japan in 1953, a master's degree in genetics in 1955 and a doctoral degree in quantitative genetics in 1959, both from from Kyoto University in Japan.

According to the National Academy of Sciences, the total number of its current active members is 1,773. In addition to Nei, other members of the National Academy of Sciences at Penn State include Paul T. Baker, Evan Pugh professor emeritus of anthropology, elected in 1980; Stephen J. Benkovic, Evan Pugh professor of chemistry and holder of the Eberly Family Chair in chemistry, elected in 1985; Nina V. Fedoroff, the Verne M. Willaman professor of life sciences, director of the Life Sciences Consortium, and director of the Biotechnology Institute, elected in 1990; Calyampudi Radhakrishna Rao, holder of the Eberly Family Chair in statistics and director of the Center for Multivariate Analysis, elected in 1995; William T. Sanders, Evan Pugh professor of anthropology, elected in 1985; Robert K. Selander, holder of the Eberly Family Chair in biology, elected in 1982; and Philip S. Skell, Evan Pugh professor emeritus of chemistry, elected in 1977.

Defense funding

continued from page 1

Positioning System have been to our military and our nation, we must appreciate the wise leadership that invested in basic research 20, 30 and even 40 years ago to bring that technology about."

Investment in basic and applied research throughout the Department of Defense is now at its lowest level since 1980, and Army, Navy and Air Force investment in basic and applied research is at its lowest in more than 35 years, Spanier said. The president said that during recessions and when last-minute spending reductions are made, it's research accounts that are generally targeted for additional cuts.

"This is unfortunate because our nation may find itself ill-prepared in future conflicts. We need to remember that when the Defense Department invests in good science, it also invests in the graduate students who are being trained and who will become the next generation of faculty, defense laboratory and military scientists, and employees at defense industries."

Spanier noted that defense funding is key to many academic disciplines. The Department of Defense accounts for 60 percent of federal funding for electrical engineering, 55 percent for computer sciences, 41 percent for metallurgy and materials engineering, and 33 percent for oceanography, he said.

Spanier introduced Secretary of the Navy John Dalton, who echoed some of his points.

"Basic research is a long-term program," Dalton said. "The end products are some-

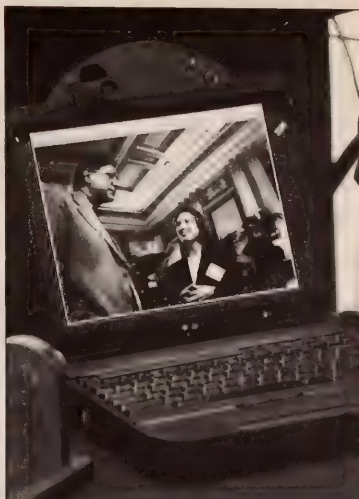
times difficult to predict, and oftentimes the research leads to applications far from those originally envisioned... Congress and the Department of Defense must ensure an environment where basic research can flourish."

The Navy funds research at every one of the 62 AAU institutions. According to Dalton, nearly 60 percent of the Navy and Marine Corps' basic research is conducted by AAU members. Anita K. Jones, director of the Department of Defense research and engineering, described American universities as "one of the jewels of this nation."

"The base from which many of the new ideas, the far-reaching ideas, come is our university research community," Jones said. "I believe one of the strengths of the nation is the Department of Defense basic research program."

This is the third year the AAU, a group of 62 of the nation's leading research universities, sponsored this exhibit. The program, "Basic Research in the National Defense," was co-sponsored with a number of lawmakers, including Sens. Rick Santorum (R-PA) and Strom Thurmond (R-S.C.), and Reps. John P. Murtha (D-PA) and Curt Weldon (R-PA).

There were 24 members of Congress in attendance at the demonstration, including these Pennsylvania lawmakers: Ron Klink (Jeanette, 4th, D); John Peterson (Pleasantville, 5th, R); Tim Holden (St. Clair, 6th, D); Curt Weldon (Upper Darby, 7th, R); Paul Kanjorski (Wilkes-Barre, 11th, D); John Murtha (Johnstown, 12th, D); Mike Doyle (Penn Hills, 18th, D); and Phil English (Erie, 21st, D).



Research in action

Graduate student Anal Grant (right) can be seen on this laptop computer screen, as she discusses her work with a passby at the recent Department of Defense exhibit in Washington, D.C. The camera was mounted on the computer and allowed for a "live" view of the proceedings.

Photo: Greg Gienio

■ Demonstrations from Penn State

Areas of Penn State research included in the May 7 demonstration before Congress were:

■ ThermoAcoustic refrigeration technology

TA refrigerators have flown on the Space Shuttle and were demonstrated on a U.S. Navy warship. A new technology which uses high-amplitude standing sound waves in inert gases to produce cooling, it is environmentally safe. Penn State researchers have used TA refrigeration technology to cool radar equipment aboard a Navy destroyer. The University is currently seeking partners to apply TA technology to commercial coolers such as home refrigerators and air conditioners. Graduate students valued the research and the technology for the ThermoAcoustic Lab headed by Steven Garrett, the United Technologies Corp. professor of acoustics.

■ Rotorcraft Center of Excellence.

The Rotorcraft Center is performing research in aerodynamics, materials, sensors and noise and vibration control for helicopter-type vehicles. This center receives Army and NASA funding and has numerous interactions with industry. Among the issues researchers are examining is the difficulty involved in landing helicopters on U.S. Navy ships, where pilots face high winds, large waves and small landing areas. Lyle Long, associate professor of engineering and co-director of the Rotorcraft Center, demonstrated research taking place at the center.

■ Institute for High Performance Computing

Brings together faculty and students in the use of massively parallel computers, algorithms and software. High performance computer applications can simulate jet engine noise, ocean currents, pharmaceutical design and other complex applications that may require a trillion operations per second. Lyle Long, who also serves as the director of the Institute for High Performance Computing, demonstrated some of its research along with Kevin Moroney, director of graduate education and research computing.

■ Propulsion Engineering Research Center

The current emphasis on environmentally benign, energy-efficient propulsion and power generation systems has placed increased demands on Department of Defense Technology. Penn State has taken an innovative approach to bring sound fundamental engineering combustion science, advanced laser-based diagnostics, and state of the art high speed computational predictive methods to address these issues. Such approaches are leading to low-cost, highly-reliable rocket systems, advanced high-performance gas turbine engines and new approaches for direct control of combustion under practical conditions. Robert J. Santoro, director of the center, demonstrated its work and answered questions.

Research highlights

"Penn State conducts more research than any other college or university in Pennsylvania and we are one of the largest research universities in the nation," according to President Graham B. Spanier. "Taking part in a demonstration like this before Congress provides us the opportunity to showcase some of the work of our talented faculty and highlight the many contributions we are making to the defense of the nation."

Penn State's total research activity in fiscal year 1996 was approximately \$350 million. Among research universities, Penn State ranked in the top 10 in research expenditures nationally and No. 1 in research among all Pennsylvania colleges and universities.

Penn State ranks second in the nation in Department of Defense-sponsored research and also ranks second in industry-sponsored research.

Penn State faculty are currently involved in more than 200 defense research projects, valued at \$100 million. Much of the research is funded by the Navy. Defense-sponsored research involves both basic and applied research.

Since 1945 Penn State has been home to the Applied Research Laboratory, funded by the Navy to advance its technology base through basic and applied research.

Among the specific research projects Penn State displayed was technology that *Discover* magazine recently announced will be featured in its July issue on innovations. A prototype microwave rocket engine invented by Michael M. Miced, associate professor of aerospace engineering, Miced and his team developed the Microwave Arc-jet Thruster, an innovative rocket propulsion system that uses parts from an ordinary kitchen microwave oven. It shows promise as a cheaper, safer thruster for maneuvering satellites and spacecraft. Spacecraft could have longer lifetimes and require smaller, and less expensive, booster rockets.

For more ...

More information on the demonstration can be found at URL: www.psu.edu/ur/. Click on the text that reads "Research on Display."

The ARTS

AT PENN STATE

International Museum Day May 18

The Palmer Museum of Art will join museums around the world in acknowledging International Museum Day on Sunday, May 18.

International Museum Day is an annual event sponsored by the International Council of Museums, the world-wide organization for the museum community. The purpose of the celebration is to remind governments and the general public that museums are an important means of education, cultural exchange and development of mutual understanding, cooperation and peace among people.

The permanent collection of the Palmer Museum includes 35 centuries of painting, sculpture, ceramics and works on paper from North America, including Mexico and the United States; Europe; Asia; Africa; and South America. A selection of these works are continuously on display in seven of the museum's galleries.

Two special exhibitions will be open that day. Focusing on works made in Africa, Oceania and the Americas, "Exotic Illusions: Art, Romance and the Marketplace" examines the different contexts in which art and artifacts are made and used. "Capturing The Light: A Selection of 20th-Century American Watercolors" includes works by many masters of the medium.

Odyssey Through Literature

On the May 18 episode of *Odyssey Through Literature*, English Professor **Bruce Weigl** reads from and discusses his 1996 collection of poetry, *Sweet Lorain*, and its origins both in youth and in war.

Weigl explains that he thinks of himself as "essentially formed by a boyhood in a town (Lorain, Ohio) of workers and immigrants and by a young manhood in the jagged, muddled and bloody war of Vietnam."

On the May 26 episode, host **Leonard Rubinstein** discusses the traditions and history of Ukrainian blind bards, or kobzars, with **Natalie Kononenko** and **Pavlo Suprun**.

Suprun starts by singing a song about Chernobyl filled with powerful imagery. The song describes the escaping radiation as a dragon, as the ancient enemy that burned the countryside. The bards often compare ancient events to more recent events, explains Kononenko, Suprun's translator and a professor of Slavic languages and literatures at the University of Virginia.

The kobzars also traditionally sing of sad events, which is why the Chernobyl disaster can be integrated into the bardic culture, Kononenko said.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WFSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in northern Pennsylvania. The complete semester's schedule can be found on the World Wide Web at <http://mickley.la.psu.edu/complit/odyssey/odyssey.htm>.



On display

"Santa Fe Canal" is one of a variety of watercolor paintings by Marlee Erwin featured in the Hetzel Union Browsing Gallery on the University Park campus. The exhibit will be on display through June 8.

Special exhibit in HUB

The HUB's Browsing Gallery features the watercolor paintings of **Marlee Erwin** through June 8. The exhibit, "A Love of Nature," features translucent, fragile blossoms that are depicted with a cool, clear light, which unifies the surface.

An accredited member of the Pennsylvania Watercolor Society and the Art Alliance of Central Pennsylvania, Erwin has exhibited in the Festival of the Arts "Images" exhibit, as well as presented a solo exhibit at Penn State.

The HUB's Browsing Gallery is on the first floor of the Hetzel Union Building, University Park. Hours are noon to 8 p.m., Tuesday through Thursday; noon to 4 p.m., Friday and Saturday; closed Sunday and Monday.



BRYCE JORDAN CENTER

Vince Gill to perform

One of country music's hottest touring performers, **Vince Gill**, and newcomer **Bryan White** will appear at The Bryce Jordan Center at 7:30 p.m. Friday, June 20. Tickets are \$24.75 and \$19.75 for reserved seating and are on sale now.

Gill's double-barreled talent as a guitarist and singer has placed him at the forefront of contemporary country music. Once the former lead singer of Pure Prairie League, Gill has successfully recorded six albums as a solo artist, with each album selling more than a million copies. He also has won eight Grammys and 15 Country Music Association Awards.

White was named 1996 Country Music Association's Top New Male Vocalist and Best New Touring Artist.

Styx, Benatar to rock the house

The rock group **Styx** and rock vocalist **Pat Benatar** will appear at The Bryce Jordan Center at 8 p.m. Thursday, July 3. Tickets are priced at \$29.50, \$24.50 and \$19.50 for reserved seating.

Styx was the first group in rock to achieve four consecutive triple-platinum albums: "Grand Illusion," "Pieces Of Eight," "Cometstone" and "Paradise Theater."

Hailing from Chicago, Styx features **Dennis DeYoung** (vocals, keyboards), **Tommy Shaw** (lead guitar, vocals), **James "Ty" Young** (guitar) and **Chuck Panozza** (bass).

Benatar was originally trained as an opera singer but decided to apply her considerable lung power to rock. Her tough, no-nonsense persona helped make her one of the most popular female performers in the 1980s. She has collected four Grammy Awards for Best Rock Vocal Performance by a Female with her "Crimes Of Passion," "Fire And Ice," "Shadows Of The Night" and "Love Is A Battlefield" albums.

Benatar is releasing all new material on June 3 on her new album, "Innamorata."

Upcoming events

■ **May 16, 17:** Penn State Commencement

Times: Friday, 3 and 8 p.m.; Saturday, 9 a.m., noon, 3 and 6:30 p.m. For more information call (814) 863-8500 or (814) 863-6357.

■ **June 12-14:** Preview '98 regional trade show
Times: Thursday, 5-8 p.m.; Friday, 10 a.m. to 7 p.m.; Saturday, 10 a.m. to 7 p.m. For both information call (814) 863-1570.

■ **July 4:** The Great American Fireworks Festival. Details to be announced.

■ **July 18:** Barry Manilow

Tickets: \$39.50 and \$29 for reserved seating, on sale now.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu>.

UNIVERSITY PARK CALENDAR



Popular stop

Dorothy Gambel of Scranton, photographed her children, Missy and Danny, at the Nittany Lion Shrine on the University Park campus during a recent visit. The site will undoubtedly be crowded this weekend, as families visit the shrine to get pictures of graduates in their caps and gowns with the Nittany Lion after graduation. Commencement ceremonies will be held for undergraduate and graduate students on the University Park campus May 16 and 17.

Photo: Greg Grieco

SPECIAL EVENTS

Sunday, May 18

■ International Museum Day, Palmer Museum of Art.

CONFERENCES

Sunday, May 18

PA Junior Academy of Science, residence halls, through May 20.

Monday, May 19

The ninth international conference on "High Temperature Materials Chemistry," Penn State Conference Center Hotel, through May 23.

"Injection Molding of Metals and Ceramics," The Nittany Lion Inn, through May 21.

The 51st Annual Tax Conference, Penn State Conference Center Hotel, through May 21.

"Summer Institute in Longitudinal Methods," Penn State Conference Center Hotel, through May 21.

POSIT, Penn State Conference Center Hotel, through May 23.

"Hewlett-Packard ChemStation Operation," Penn State Conference Center Hotel, through May 23.

PAMFES Conference, The Nittany Lion Inn, through May 20.

Wednesday, May 21

Forensic Entomology Conference, Headhouse I, through May 23.

Thursday, May 22

Twelfth Annual Plant Physiology Symposium, Penn State Conference Center Hotel, through May 24.

Friday, May 23

Penn State Teacher Education Site Liaison, Penn State Conference Center Hotel.

Wednesday, May 28

"Responding to Sexual Mispractice by Clergy," Penn State Conference Center Hotel.

"Transforming Classrooms through Technology," Penn State Conference Center Hotel, through May 30.

ICDE Preconferences, Penn State Conference Center Hotel, through June 1.

Thursday, May 29

Traditional Alumni Reunion '97, The Nittany Lion Inn and residence halls, through May 31.

Friday, May 30

American Regions Math League, residence halls, through May 31.

EXHIBITS

HUB Browsing Gallery

"A Love of Nature" by Marlee Erwin, through June 8.

HUB Sculpture Corner

"American Gothic Revisited" by Jane Richey, through May 21.

Kern Exhibition Area

Sketches titled "Shalom," through May 22.

Kern Tail and Flat Cases

■ "The Passover Hagadah — A Jewish Cultural Phenomenon," through May 18.

Penn State Museum of Art

"Capturing the Light: A Selection of 20th-Century American Watercolors," through May 18.

"Recent Gifts and Acquisitions: Works on Paper," through June 8.

"Exotic Illusions: Art, Romance and the Marketplace," through June 15.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://casu.edu/calendar/>

Shenango receives \$1.5 million bequest

Penn State Shenango received \$1.5 million from the estate of William F. "Bill" McDowell, a longtime resident of Sharon, who died Aug. 28, 1996. The bequest is the largest gift in the history of the campus.

McDowell graduated from Penn State in 1936 with a degree in journalism. As a student, he was a columnist and news editor for the *Collegian*. After graduation he had a successful career of 22 years with The Sharon Herald Co. as a reporter and city editor. In 1959, McDowell moved to Pittsburgh to join the Columbia Gas System, where he was the editor for their magazine, *News & Views*, as well as information coordinator until his retirement in 1973.

McDowell realized that higher education was critical to the success of the individual and the Sharon region. Over the years, he became very

involved with Penn State Shenango as an associate member on the Campus Advisory Board. In 1986, McDowell established a \$200,000 unitrust for the campus. He continued to make generous contributions to Penn State throughout his life. In 1988, he established the A.W. Dude McDowell Memorial Scholarship in memory of his uncle, the former co-publisher and chairman of the board of The Sharon Herald Co.

This scholarship/internship was established to give talented Penn State journalism students financial help as well as an opportunity to continue their careers in the newspaper profession. He continued to fund his endowed scholarship over the years and it is now worth more than \$100,000. The endowment has generated nine scholarships over the last nine years.

Associate dean sought

Nominations and applications are sought for the position of associate dean for operations and planning in the Graduate School. This is a 12-month position (one-half to two-thirds time commitment) and is available July 1 or Aug. 1. The search is being conducted internally. The associate dean is the operations officer for many aspects of the management of Graduate School activities and reports to the dean of the Graduate School.

The Graduate School provides leadership and coordination for graduate education at Penn State, serving more than 10,300 students and 2,200 graduate faculty. The Graduate School currently awards graduate degrees in 140 fields at the University Park colleges, Behrend College, Capital College, the Great Valley Graduate Center and the College of Medicine in Hershey.

Responsibilities for the position include participation in ongoing strategic planning activities and plan implementation; budgetary responsibility for Graduate School operations, including intercollege graduate degree programs; participation in and provision of guidance for selected Graduate Council committees and subcommittees; supervision of Graduate School staff; preparation of special reports

and analyses of graduate education issues; and representation of the Graduate School on various committees and organizations internal and external to Penn State, including the Graduate School Alumni Society.

Qualifications for the position include: tenured professional appointment and membership in the graduate faculty, with significant teaching, research and service accomplishments; demonstrated leadership and interpersonal skills; commitment to high-quality disciplinary and interdisciplinary graduate programs; understanding of the major issues and trends affecting graduate education; ability to promote cooperation in a multi-campus environment; and an understanding of and support for the University's multiple missions and its commitment to diversity.

The search committee will begin to review applications and nominations on May 27 and continue to receive them until a candidate is selected. Women and minority faculty members are encouraged to apply. Letters of application, accompanied by a curriculum vitae and nominations may be submitted to: Caroline D. Ekkhardt, chair, Associate Dean Search Committee, 114 Kern Graduate Building, University Park, Pa. 16802.

Scholarship created in memory of assistant professor

Penn State Harrisburg and its School of Humanities are creating a scholarship in memory of Suren Lalvani, assistant professor of humanities and communications. Lalvani, who had been a member of the Harrisburg faculty since 1990, died unexpectedly at his home on May 3. He was 42.

Lalvani's first book, *Photography,*

Vision, and the Production of Modern Bodies, was published by the State University of New York Press. At the time of his death, he was completing work on a second book.

Contributions to the scholarship may be made to Penn State in the name of the fund and sent to the PSH Development Office.

Appointments

University Libraries to welcome new dean effective Sept. 1

Nancy Eaton, Dean of Library Services at Iowa State University of Science and Technology in Ames, Iowa, has been named dean of the University Libraries at Penn State, effective Sept. 1. Formal approval will be taken up by the Board of Trustees at its May 16 meeting.

As dean, Eaton will be the chief administrator and academic officer of the University Libraries with primary responsibilities for budget and planning, information technologies, faculty and staff leadership, fund raising and collection development for libraries at all Penn State locations. She will hold the academic title of librarian.

At Iowa State, Eaton has been responsible for the administration of the university library system since 1986.

She is a member of the board of trustees of the Online Computer Library Center and the Association of Research Libraries; the editorial board of the *Journal of Library Administration*; and the University Computing and Networking Committee. She has written several articles and book chapters.

A graduate of Stanford University, she received her master of library science degree from the University of Texas at Austin where she also did post-master's degree work under a U.S. Department of Education fellowship.

Before becoming dean of library services at Iowa State in 1989, she was director of libraries and then director of libraries and media services at the University of Vermont from 1982 to 1989. She held the rank of library professor.

Eaton also was technical services administrator for the Atlanta Public Library from 1976 to 1982; automation librarian for the State University of New York at Stony Brook from 1974 to 1976; and assistant to the university librarian at the University of Texas at Austin from 1972 to 1974 after beginning her career at Texas as a catalog librarian in 1968.

Development assistant joins Berks-Lehigh Valley College

Meggan Hannigan has joined Penn State as development assistant. She will assist in the planning and implementation of fund-raising programs for Penn State Berks-Lehigh Valley College, and she will be working from Berks campus. Formerly employed by Eastern Seal Society of Berks and Schuylkill Counties, Hannigan has previous fund-raising experience. She earned a bachelor's degree in psychology from Alvernia College.

Agricultural Sciences gains director of alumni relations

Jillian Hills Stevenson, public information officer and assistant to the dean of publications for University Libraries, has been named director of alumni relations in the College of Agricultural Sciences.

Stevenson will manage all alumni programs and activities for the college, including the College of

Agricultural Sciences Alumni Society, and will act as a liaison between the college and the Penn State Alumni Association. She will plan all college alumni programs and special events and will plan and coordinate the selection process for such awards as Alumni Fellows, Distinguished Alumni and Internship Awards.

In addition, Stevenson will be responsible for alumni-related news for University and Alumni Association publications. She also will produce all College of Agricultural Sciences Alumni Society publications.

From 1990 to 1997, Stevenson served University Libraries, where she directed a program of marketing communications including publications, press releases and videos. She also managed and maintained the Libraries' World Wide Web site.

Before joining Penn State, Stevenson worked as assistant director of field service for NAFSA: The Association for International Educators in Washington, D.C., from 1988 to 1990.

Stevenson earned a B.A. in speech communications from Penn State in 1984. She also earned a certificate in marketing from Penn State in 1993.

In 1994, she received a Rotary Group Study Exchange Award to travel to Brazil, for an intensive six-week professional exchange program.

As a volunteer, Stevenson has done extensive work with the Central Pennsylvania Festival of the Arts.

Associate professor is named Smeal senior associate dean

James B. Thomas has been named senior associate dean of The Smeal College of Business Administration.

An associate professor of management, Thomas will succeed Peter D. Bennett, who will step down after nearly eight years of service. A professor of marketing, he will return to the faculty on July 1.

Thomas has been a member of The Smeal College faculty since 1987 and is a recognized expert in strategic decision making, organizational theory and decision support systems. He is a noted teacher at the undergraduate and graduate levels, as well as in the Penn State Executive Programs. Highly active in his research, Thomas' most recent paper dealt with strategic change in the academic world.

A Penn State alumnus, Thomas earned a bachelor of arts degree in pre-law in 1974. He went on to earn a master of science in government from Florida State University in 1979 and a doctorate in strate-

gic management from the University of Texas at Austin in 1988. Before becoming an assistant professor of management at Penn State 10 years ago, he taught at both Texas and Florida State.

Thomas also has been director of special projects with the Texas Secretary of State's Office, director of management systems with the Florida Department of State and a legislative analyst for the Florida State Legislature.

His scholarly articles have appeared in such publications as the *Administrative Science Quarterly* and the *Academy of Management Journal*. Thomas also is the author or co-author of case studies, book chapters and proceedings. He has made numerous presentations here and abroad before the Academy of Management, the Institute for Operations Research and the Management Sciences, and other organizations. He has won grants for studies of top management teams, the effect of national culture on strategy, and strategic alignment of business and information technologies, and has been a consultant for such major firms as IBM and Citibank.

Smeal executive programs appoints new associate dean

Virginia M. Tucker will be the new associate dean for executive education in The Smeal College of Business Administration effective July 1.

Tucker succeeds

Albert A. Viceré, who led executive programs for the past nine years. Viceré will continue with the college as managing director of the Institute for the Study of Organizational Effectiveness and as a member of the faculty.

Tucker, also an associate professor of business administration, has been with executive programs for 15 years. She joined the staff as program manager in 1982, was named assistant director two years later, associate director in 1987 and director three years after that. In that position, she was directly responsible for public and custom programming.

Earlier in her career, Tucker was director of financial aid at South Hills Business School, State College, and a market analyst and process engineer with Corning Glass. She holds a bachelor's degree in mathematics from the State University of New York-Oneonta, and M.B.A. and Ph.D. degrees from Penn State. Her doctoral work was in business logistics, with a minor in operations management.

Tucker has chaired or helped coordinate major international conferences in executive education, including the watershed 1991 Conference of the University Consortium for Executive Education in Fontainebleau, France, and the 1996 UNICON annual meeting at University Park.

She is the co-author and editor of proceedings, journal articles and reports dealing with critical issues in executive and organizational development. She has been a consultant with numerous Fortune 500 companies and has made presentations and taught overseas and across the United States.



NANCY EATON



JILLIAN HILLS STEVENSON



VIRGINIA M. TUCKER



JAMES B. THOMAS

Summer Sessions has much to offer this year

A new LEAP into the academic experience and a wide variety of films, lectures and concerts — and the Central Pennsylvania Festival of the Arts — highlight Summer Sessions this year at University Park.

Among the special offerings are the first of a series of African-American Traditions Seminars, sponsored by the Institute for Arts and Humanistic Studies; the Orion Freshman Wilderness Orientation Program, developed by Shaver's Creek Environmental Center and the Penn State Outing Club, and a free series of "Comic Operas for the Movies" — *Albert Herring* by Benjamin Britten on Wednesday, June 25; *Falstaff* by Verdi on Wednesday, July 9; and *Il Barbiere di Siviglia* by Rossini on Wednesday, July 23. Each opera will be introduced by a faculty member in the School of Music.

Also featured will be the Summer Science Seminars, presented by faculty in the sciences every Thursday at the Nittany Lion Inn, and an Australian Film Festival to be held Wednesday and Thursday, July 16-17, in 112 Kern Building.

Penn State's LEAP (Learning Edge Academic Program), which had some 96 students last year, is expanding to accommodate up to 500 students this summer. Through the program, students can start their Penn State education in a comprehensive learning community, taking two integrated courses in different subjects, tied together with common topics or assignments. Mentors will be on hand to assist the students, and computing and library workshops will be offered.

"In a change in admissions policy, freshmen no longer as before will be required to attend summer as a condition for fall admission," Lewis Jillings, acting director of Summer Sessions, said. "As a result, we have developed a number of new programs — highlighted by LEAP — to attract freshmen during the summer."

"The LEAP Program, which will be one of the

largest learning community programs in the country, built around seven combinations of courses, is designed to help students not only survive, but thrive. By developing these freshmen activities, we are trying to ensure that Summer Sessions is seen as a fully equivalent part of the academic year."

In addition, Summer Sessions this year is supporting a Summer Institute for High School Teachers of Astronomy; a number of minority programs; and a pre-college program for high school juniors and seniors. Also being offered are dance aerobics, ice skating and ice cream socials in the weekly "Diversions" series, along with the popular Music at Noon series every Tuesday at the Fisher Plaza.

A Calendar of Events with discount coupons for ice skating and ice cream "Diversions" events may be obtained at the Summer Session office in Spruce Cottage on campus.

Other Summer Sessions highlights: Pennsylvania Centre Stage is offering four plays — "You're a Good Man, Charlie Brown," "The Mousetrap," "Misalliance" and "A Chorus Line" — in the Playhouse and Pavilion theatres, and Music at Penns Woods will offer eight chamber and orchestra performances. The annual Central Pennsylvania Festival of the Arts is scheduled for July 9-13.

In addition to the Australian Film Festival, the Graduate Student Association Film Series will present six family films at Fisher Plaza; Explazaganza 1997, also at Fisher Plaza, will feature six films in an Audrey Hepburn Festival, and the HUB will present seven films on the HUB lawn.

"Penn State is a national leader in summer sessions," Jillings said. "Our 12,000 students last year made Penn State the program, along with UCLA, one of the biggest in the country."

For more information on classes and special events, contact the Office of Summer Sessions at (814) 863-4174.

SUMMER SESSIONS EVENTS

Friday, June 6

Pennsylvania Centre Stage, "You're a Good Man, Charlie Brown," Pavilion Theatre, through June 21.

Wednesday, June 11

Summer Session eight-week classes begin.

Pennsylvania Centre Stage, "The Mousetrap," Playhouse Theatre, through June 28.

Thursday, June 12

Music at Noon: Fisher Plaza, Tim and Elise Duo contemporary music.

Ice Skating "Diversions," 8-11 p.m., Penn State Ice Rink, \$11 with coupon, \$2.25 without, includes skates.

Friday, June 13

Ice Cream "Diversions," Union Fusion Jazz Band, 7 to 8 p.m., Creamery patio. Creamery ice cream 85 cents with coupon, \$1.35 without.

Monday, June 16

Dance Aerobics "Diversions," 8 to 10 p.m., White Building Gymnasium.

Tuesday, June 17

Music at Noon: Fisher Plaza, Jazz Showcase.

GSA Film Series Explazaganza, 9 p.m. Fisher Plaza, "Roman Holiday."

Wednesday, June 18

HUB Lawn Films, dusk, "Four Weddings and a Funeral."

Thursday, June 19

Music at Noon: Fisher Plaza, Mick and the Mystics.

Ice Skating "Diversions," 8-11 p.m., Penn State Ice Rink. Summer Science Seminars: Paul Bablitz, biochemistry and molecular biology, 3:30 p.m., Nittany Lion Inn.

Friday, June 20

Ice Cream "Diversions," Tarnished Dixieland music, 7 to 8 p.m., Creamery patio.

Saturday, June 21

Music at Penn's Woods Orchestra Performance, 7:30 p.m. Eisenhower Auditorium.

GSA Family Films, 8:30 p.m. Fisher Plaza, "Babe."

Sunday, June 22

Music at Penn's Woods, 3 p.m., Music Building Recital Hall.

News in Brief

Subjects sought

Volunteers are sought for a research project involving the measurement of cardiovascular responses associated with cold packs applied to the forehead. Participants must be between 18 and 40 years old, without history of high blood pressure. Participation will take about two hours per day for three days. Participants will receive \$40 plus a gift. The principal investigator on this project is Karen S. Quigley, assistant professor of psychology. For more information, contact Suzanne E. Weinstein at (814) 863-6018.

Obituaries

Charles H. Bush Jr., maintenance foreman, Penn State Schuylkill, from Feb. 22, 1967, until his retirement June 1, 1990; died April 10 at the age of 69.

Ernest H. Coleiman, physician, University Health Services, from Sept. 21, 1959, until his retirement July 1, 1970; died April 26. He was 91.

Adelaide R. Deibler, white print operator, Applied Research Laboratory, from May 1, 1949, until his retirement Aug. 1, 1971; died April 22 at the age of 85.

Delmer P. Duvall, supervisor of motion picture services, Division of Instructional Services, from Oct. 1, 1946, until his retirement Jan. 1, 1968; died April 13. He was 91.



Out for a walk

Graduating senior Laura Balok takes John's Two Step and her colt to pasture at Farm 16 of the University Farm System near Beaver Stadium on the University Park campus.

Photo: Greg Grieco

Center works to improve quality in food industry

Did you ever wonder how much fat is really in that fast food hamburger? Researchers at Penn State's new Center for Food Manufacturing (CFM) have, and they're focusing on questions like this to improve food manufacturing processes and in turn, make food less expensive and of better quality.

By bringing state-of-the-art manufacturing technologies to the food industry, researchers at CFM are developing innovative applications of near infrared reflectance (NIR) spectroscopy. Using this technology, the fat content of beef can be determined precisely and efficiently as it comes out of a meat grinder. The center's focus is matched with two of the University's strongest colleges — Agricultural Sciences and Engineering. **Paul Walker**, professor of agricultural and biological engineering, serves as the center's director.

Focusing on productivity, competitiveness and safety in food manufacturing, the center's goal is to better educate students and train industry professionals about issues facing today's food manufacturing industry. In this vein, a main objective is to effectively transfer of technology from research labs to industry.

The center's roster includes top graduate students and 35 faculty from five colleges at Penn State. In addition to representatives from the colleges of Agricultural Sciences and Engineering, there are experts from The Smell College of Business Administration, the College of Health and Human Development and the Eberly College of Science participating. Walker is assisted by three associate directors: **Richard A. Wysk**, Leonard Chair in engineering and professor of industrial engineering; **Greg Ziegler**, associate professor of food science; and **Joe Rose**, the Paul Morrow professor in manufacturing and design in the College of Engineering.

The center is supported by funding from the colleges of Agricultural Sciences and Engineering, and a Ben Franklin Technology Center grant from the Commonwealth of Pennsylvania. Directors of the CFM are currently seeking funding from the National Science Foundation to establish an Engineering Research Center at Penn State in 1998. If awarded, the CFM will expand its operation to serve a larger portion of the U.S. food industry.



Groundbreaking ceremony launches HUB-Robeson construction project

President Graham B. Spanier addressed a large crowd at the May 2 groundbreaking ceremony that launched a two-year construction project for the HUB-Robeson Complex on the University Park campus, above. At right, Nikitira Bailey, past president of the Black Caucus, added a brick to the cornerstone plaque during the ceremony.

The planned project will renovate and expand the Hetzel Union Building and house the new Paul Robeson Cultural Center. The complex will add 91,000 square feet to the existing 154,000 square feet composing the HUB and add the new Robeson Cultural Center. Changes to the HUB include a new entrance on Pollock Road, a new auditorium, more meeting rooms and student offices, renovated and expanded HUB Eateries dining areas, study lounges, improved access for users with disabilities, art gallery space and an expanded ballroom.

Work on the first phase of the project is slated to begin approximately May 26. In early summer, construction and information updates will be posted on various bulletin boards, at the HUB and Robeson Center information desks and on the Web at <http://www.psu.edu/HUB/Expansion/>.



Photos: Greg Grieco

Take note

It's time to update phone book information

The Department of University Publications is updating the general information and University department listings of the student and faculty/staff telephone books. The deadline for submitting changes to the department listings is July 11.

Faculty and staff in all University locations are asked to help make the updating as efficient as possible by photocopying the pages that pertain to their areas, marking changes and sending updates to the Department of University Publications, Directories, Suite A, University Support Building I, University Park Campus, by July 11. If no update is received by then, it will be assumed that no changes are necessary for your area.

The department listings on pages 23 through 87 in the Faculty/Staff Directory are identical to those in the Student Directory. Please submit only one update of material if it is between pages 23 and 87

in the faculty/staff book and that update will be used for both books.

If changes to your area are extensive, please type them on a separate sheet and attach it to the photocopy of your present listing.

Changes for individual listings in the Faculty/Staff Directory for full-time employees should be handled through your human resources representative. The IBIS function UADR (update address information) is the only method of correcting or changing an employee's address or telephone information that will ensure that the information will appear correctly in the Faculty/Staff Directory. All human resources representatives have been given access to the UADR function. Do not send corrections for individual listings to the Department of University Publications.

If you are a part-time employee who works in

an area connected with the University but are not on the full-time payroll, or are a faculty member emeritus, and you want to be listed in the 1997-98 Faculty/Staff Directory, please submit a Department of University Publications Telephone Directory Information Form by July 15 to Publications at the above address. The human resources representative who works with your area can help you get a form or you can get one from Publications by calling (814) 863-1870. Please remember that you must submit a form each year if you want to be listed in the coming year's Faculty/Staff Directory.

If you have any questions about sending your area's departmental update or about the use of the telephone information form, call Publications at (814) 863-1870. If you have questions about your individual listing, call your human resources representative.

Systems Architecture plays vital, yet silent role

By ANNEMARIE MOUNTZ
Public Information

When a new operating system is installed on a desktop computer, the installer must make sure installation goes smoothly and all software is compatible with the new system. If something goes wrong, the user could lose time, important documents or data.

The potential problems associated with such an installation are multiplied dramatically when a new operating system is installed on the University's administrative mainframe computer, which is where several very large databases are stored. One tiny "bug" could send units University-wide grinding to a halt.

For this reason, **Brian France**, lead systems programmer, and his colleagues in Systems Architecture in the Office of Administrative Systems have worked since last fall — sometimes around the clock — preparing for the upgrade of MVS, the mainframe operating system. Their hard work paid off. Things couldn't have run more smoothly when the new MVS was installed on the University's mainframe on Feb. 25.

"The main problem with the operating system is that if it doesn't work, nothing works," said **Mike Belinc**, manager of Systems Architecture. "If the operating system doesn't come up, none of the systems like Roscoe or the databases, IBIS, ADIS and ISIS, can work. It's a very critical piece of software and so it has to be flawless when you first put it into production."

The upgrade was needed because the new version of the operating system includes support for the Distributed Computing Environment, or DCE.

"People want to have access to their data and do their own manipulations from their own desktop computers. This new architecture has allowed us to distribute more of the workload out to the user community so they can have more control of their data," Belinc said. "The biggest problem doing this kind of distributed data is having security on that data, and that's where DCE fits in — it's the security side of the software that will eventually give us security from within this office outward to the rest of the University."

This upgrade was more involved than most, because the University jumped from version 3 of MVS to version 5 and upgrading two levels increased the amount of up-front work that needed to be done. Employees in Systems Architecture spent the better part of the last two years preparing for the upgrade.

"In several cases we had to upgrade other vendors' software and put new releases in to make them compatible with the new operating system," Belinc said. "That causes delays because it may take a day to upgrade a software package, or it may take up to three or four months."

The project involved virtually all of Systems Architecture, including the database administration and communications groups. Once everyone had all of the other software upgraded and in place, France began doing what needed to be done to the new operating system itself.

"We get a generic system from IBM. Theoretically it runs the day you install it," France said. "But every organization's MVS system is tailored to its own needs. I had to spend time setting our parameters on the system, so it would run the way we want it to."

France spent months poring over a dozen boxes

Computers ready for new millennium

The millennium is coming! The millennium is coming! Quick, hold onto your computer it's going to be a bumpy ride into the future. Or is it?

Some say that on the first day — nay, during the first second — of the year 2000, when 1999 rolls over into the millennium, ATM machines will not know who we are, the dead will be registered as alive, clocks will be wrong and the world will descend into chaos — all because computers worldwide will think we are back in the year 1900. Even articles in *Newsweek* have predicted that every routine computer transaction that relies on a date could go haywire, sending computers around the world crashing.

It seems that a long time ago when programming language was being prepared, in an effort to save space, the codes were written to read only the last two digits of any given year. As the millennium draws nearer, doomsayers are beginning to predict a massive computer meltdown.

However, according to some at Penn State, this is not the case. Most large companies, government agencies, colleges, universities and businesses already have begun to implement solutions to the problem. Many already have finished updating their software for programs needed to place orders and store information for the year 2000.

At Penn State, the University began solving the millennium dilemma years ago because, among other things, students who will graduate in the year 2000 are being admitted.

"We decided to upgrade our systems over a long period of time, and therefore are not facing large, one-time dollar costs," **Robert Crothers**, deputy director of the Office of Administrative Systems (OAS), said. "We also are fortunate because many of our software products have been purchased with maintenance contracts, which specify

that vendors are responsible for fixing the problem."

The state of Pennsylvania has allotted \$10 million in its 1997-98 budget to help state agencies deal with the turn of the century. For Penn State, however, the hype over the year 2000 computer problem may be just that — hype.

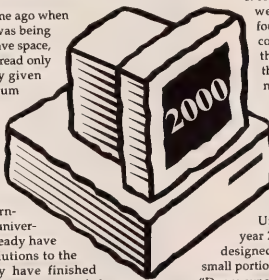
But, reprogramming to the new date conventions is not an easy task — it's been both time-consuming and costly. When the Penn State team began working on the problem, it developed a program to check the dates in the student data system in nearly 5,000 separate programs that were first installed between 1963 and 1985. After

1985, most computer programs were written to allow for a four-digit date, so the current computer programs used for the business operations of the University are relatively new and most were designed with the millennium in mind. The others were easily converted.

Crothers has a chart detailing the current status of Penn State's progress on upgrading University software for the year 2000, which he and his staff designed in 1995. They have only a small portion of it left to fill in.

"Do we expect trouble?" Crothers asked. "While it's easy to test an individual problem one at a time, it's not likely that we will be able to test all 5,000. We may have a program that passes information on to another program that has a glitch, but since we are being very methodical, we will be able to correct such individual problems when they happen."

It's clear that the millennium bug is the least of our worries. If the planet is paralyzed at the turn of the century, it's safe to say that a couple of numeric characters representing the year 2000 won't be the cause — at least not at Penn State.



of manuals, writing or modifying programs that give users choices at certain points and, of course, testing everything. While he was able to do much of the testing during the daytime, some had to be done when nobody else was on the system. To do this, France and others had to be in the office at 5 a.m. on many days, and also found themselves working Sunday nights.

"The bad thing is that this isn't all we work on," France said. "We're all trying to keep our other projects going at the same time as we were doing this. This was a major group effort."

Mike Kauffman, systems engineer II in the Office of Administrative Systems, had to juggle his staff to keep those other projects going.

"We're constantly reappraising top priorities to try to accommodate those changes that must be accomplished by a certain date. The work we did to prepare for the MVS upgrade slowed down a lot of the other things we wanted to get into. It impacted

on other hardware installations we've wanted to do and some of the other software is not as current as we'd like to keep it. Everything always has an impact. We just try to balance things the best we can."

The MVS upgrade has been online for a little over two months now, and things have worked smoothly. While not everything was put onto the new system at that time, the last of the software has now been moved and the old system is now offline.

On the whole the project was a major success. One key indicator of this is that most of the rest of the University has no idea that anything happened.

"The best thing that can happen for us is that nothing goes wrong and nobody notices," Belinc said. "If something fails in the operating system, then nothing else will work and you'd notice it. When everything's operating smoothly, it's all quiet down here in the basement of Shields."

Faculty/Staff Alerts

All Shenango numbers changed

Penn State Shenango campus telephone numbers changed on May 14 when the campus underwent a switch to a new telephone system. For a short time the old numbers will have a recording identifying the new numbers, but should you have a problem, please call Carol Swartz at (412) 983-2817.

New hours

The Penn State Parking Office new summer business hours are in effect now through Aug. 22. The office will be open Monday through Friday from 8 a.m. to 5 p.m. For more information, call (814) 865-1436.

Summer workshops

Education Technology Services (ETS) of the Center for Academic Computing will hold summer workshops designed for faculty and teaching assistants. Beginning this month, ETS offers week-long seminars in teaching and learning with technology. The seminars will be repeated in June and in July.

The seminars are designed so that information from an introductory course such as "Creating Multimedia Resources" taught at the beginning of the week can be applied in a new context like "Extending Web Development Skills" or "Bringing Your Presentation Skills to the Classroom" later in the week.

The summer seminars will be held during the following weeks: Monday-Friday, May 19-23; Monday-Friday, June 16-20; and Monday-Friday, July 21-25.

To register, please contact Jean Cowher at jac@psu.edu or (814) 863-4356. You also may register via the World Wide Web. From the Penn State home page (<http://www.psu.edu/>), choose Computing, then choose Seminars, look for Summer Seminars, then choose Register.

Please contact Karen Peters at knp138@psu.edu or at (814) 863-7763 with any questions related to the summer workshops. A general description of the seminars and other resources can be found from the ETS home page at <http://ets.cae.psu.edu/>.

Upcoming HRDC courses

Call the Human Resource Development Center at (814) 865-8216 to register for the following programs:

■ **Designing Visuals for your Presentation** — COM 016

May 19, 8:30-11:30 a.m., 319 Rider Building, Cost: \$35.

■ **Designing and Developing Customer Satisfaction Surveys** — CUS 010

Learn to use various survey methods, types of questions and rating scales to gauge customer satisfaction. May 20, 1:15-4:30 p.m., 319 Rider Building, Cost: \$35.

■ **Becoming an Adult Learner in Higher Education** — PER 015

Thinking of returning to school? Get the motivation to get you started. May 21, 9 a.m. to noon, 319 Rider Building, Cost: \$35.

■ **Communication Media: Matching Media With Messages** — COM 050

Develop the tools and techniques to make effective use of the information superhighway. May 22, 2-4 p.m., 319 Rider Building, Cost: \$25.

■ **Planning and Implementing Strategies for Organizational Change** — LDR 057

Learn how to maximize the benefits and minimize the risks. May 23, 1:30-4:30 p.m., 319 Rider Building, Cost: \$35.

■ **Surfing for Gold: Using Electronic Sources to Identify Research Funding Opportunities** PRO 080

June 5, 9 a.m.-noon, 319 Rider Building, Cost: \$35.

■ **Developing Winning Research Proposals** PRO 014

June 12, 9 a.m. to 4 p.m., 319 Rider Building, Cost: \$75.

■ **Developing Winning Research Proposals II** PRO 026

June 19, 8:30 a.m. to noon, 319 Rider Building, Cost: \$50.

■ **Program/Project Management** PRO 032

Manage complex technical projects and explore the requirements, risks and constraints imposed by various contract documents; June 26, 9 a.m. - 4 p.m., 319 Rider Building, Cost: \$70.

Intercom survey

Readers who were randomly selected to participate in the Intercom Reader-Survey are being asked to return their questionnaires as soon as possible. The staff of Intercom values your opinion and comments about this publication, and the information you provide may help shape the way news is delivered.

To date, approximately 750 surveys of the 2,500 sent out through campus mail have been completed. Anyone with questions about the survey may call Lisa Rosellini, editor, at (814) 865-7517 or e-mail her at lmr@psu.edu.

Loan period extended

All full-time Penn State employees can now check out books from the University Libraries for an entire semester. Previously, staff members were able to keep materials for only four weeks. When borrowing books, employees must show a current faculty/staff ID and maintain a current address on file with the Libraries. All loaned materials can be recalled at any time.

For more information on the lending policy, read the University Libraries' Lending Code available at public service areas in the Libraries.



Taking note

For the second year in a row, staff assistants in the Commonwealth Educational System will participate in a two-day convocation to hone personal and professional skills and provide recognition for the work they do. Participants in last year's event (shown above) networked and learned how to survive in a changing organization, among other things. This year, the CES Staff Assistants Convocation, scheduled for May 21-22 at the Nittany Lion Inn on the University Park campus, will show its 250 participants how to manage and organize electronic files, design newsletters, increase communication and avoid burnout. Participants will also be involved in a "CES town meeting" with Robert Dunham, senior vice president and dean of CES. For more information about this ongoing seminar, contact Linda Higginson by e-mail at lh1@psu.edu.

Web access to LIAS

The University Libraries are replacing old terminals and installing Windows-based computer workstations that will allow patrons access to LIAS On the Web. Over the next few months, 225 personal computers will replace the current LIAS terminals at all Penn State library locations, including the Commonwealth College.

LIAS On the Web provides graphical access to The CAT, the Libraries' online catalog; subject databases; and Web resources. It also features easy access to the Big Ten Libraries' online catalogs through the Virtual Electronic Library and a new "Tell Me" option where a patron can specify the type of material and subject desired (for example, journals/history), and LIAS makes suggestions about resources that match the request. Multiple simultaneous searching sessions are possible, as well as the continuation of existing features such as e-mailing and downloading citations and full-text articles from databases.

All Libraries locations are expected to have most all public workstations in place by the end of summer.

Remote users can still reach LIAS through a direct Telnet session to: liasp.spsu.edu. To reach LIAS On the Web, go to <http://liasp.spsu.edu/>.

Pattee changes

The handicapped entrance and parking spaces behind Central Pattee Library off Curtin Road on the Uni-

versity Park campus have been closed due to construction on the Pattee Library addition and Pattee renovation. This area also includes the underpass walkway from Curtin Road to the front of Pattee. A new handicapped entrance has been created at the front of East Pattee and an existing handicapped entrance is located at the front of Pattee's west wing. Handicapped parking spaces have been created adjacent to West Pattee along Fraser Road and near the Mueller Building by East Pattee.

In addition, the drive-up book drop behind Central Pattee has been closed. Additional book drops have been installed at the Pattee Library loading dock along Curtin Road and outside of West Pattee along Fraser Road. Other book drop locations include: West Pattee, ground floor entrance; East Pattee, ground floor entrance; Physical Sciences Library, 230 Davey Lab; Mathematics Library, 109 McAllister Building; Earth and Mineral Sciences Library, 105 Deike Building; Engineering Library, 325 Hammond Building; and Pollock Library.

For more information and updates on the building project, visit the construction Web site at <http://www.libraries.psu.edu/pubinfo/construction/>. Send your questions and comments to mac@pubinfo.psu.edu. For information concerning handicapped services, call the Library Services for People with Disabilities at (814) 865-0284.

Engineers develop fabrication method for safer flywheels

By BARBARA HALE
Public Information

University engineers have developed a practical, easy method for making safer versions of the spinning cylinders or disks known as flywheels that could make them more likely candidates to power cars, stabilize household electrical current — even run space satellites.

Christopher W. Gabrys, a consultant who earned a Ph.D. at Penn State in 1996, and his adviser, Charles E. Bakis, associate professor of engineering science and mechanics, said their new method "should theoretically allow fail-safe or limited failure flywheels to be constructed."

The new technique reduces the possibility of catastrophic failure of the flywheels by changing the area where the flywheel can be expected to fail and by limiting the amount of the rotor that will fly off if the wheel is spun too fast.

Bakis said that composite flywheel rotors are usually made from high-strength, lightweight, carbon, glass or synthetic fibers formed into a continuous filament that is wound around a spindle or mandrel, like thread on a spool. The filaments are impregnated with epoxy to "glue" them together and hold them in a rigid disk or cylinder shape.

In the new approach, a rubberlike material is substituted for the epoxy. The filament passes through a special solution "bath" that soaks it thoroughly with the rubber-like material. The elastomer-impregnated filament then solidifies in a matter of minutes after being wound on the mandrel.

"The result is a flywheel in which we predict failure will result in only the outer edge fibers peeling from the wheel," Bakis said. "The breakdown process also is self-arresting since the inner material is operating at lower stress levels due to the unique properties of the matrix flywheel. This is in contrast with rigid epoxy matrix wheels which usually fail explosively — all at once."

The two researchers said that the use of elastomers in composite flywheels is not a new idea and it had been theorized and reported in technical literature previously. However, Gabrys and Bakis are the first to develop a simple, practical way to make very thick disks and cylinders using elastomer-impregnated filaments.

Limited-failure flywheels have



Charles Bakis demonstrates how a free-turning flywheel will create enough energy to power the 100-watt light bulb to his right.

Photo: Greg Grieco

the potential to be safe, low cost, non polluting, replacements for chemical batteries in a host of applications, Bakis said. High-performance composite flywheels are capable of storing or providing 20 to 40 times more power per kilogram than batteries. Their power comes from the fact that, once set rotating, a flywheel tends to keep rotating unless its kinetic energy is deliberately drawn off or friction slows it down.

Heavy, low-tech, metal flywheels have been used for years on auto crankshafts to assist gasoline engines between piston strokes. Currently, GM, Ford, Mercedes Benz and Mitsubishi are all known to be developing flywheel/electric hybrid auto

propulsion systems incorporating the new high performance composite rotors.

Less well known are some of the other possible flywheel applications. "Power companies often keep a small plant in reserve which they fire up twice a day for peak needs. Flywheels could be a less costly or dangerous alternative that would enable the companies to run their plants at full use around the clock," Bakis said. "On satellites, flywheels could not only replace batteries but could even be used as momentum wheels to orient the spacecraft."

All of these applications depend, at least in part, on developing safer rotors.

Population Research Institute part of \$2.5 million research project

The Penn State Population Research Institute, the Institute for Survey Research at Temple University and the University of Puerto Rico have joined forces for an unparalleled \$2.5 million research project to investigate poor maternal and infant health among both mainland U.S. and island Puerto Ricans.

The Puerto Rican Maternal and Infant Health Project is funded by the Centers for Disease Control, the Maternal and Child Health Bureau of the Health Resources and Services Administration and the National Institute of Child Health and Human Development, a division of the National Institutes of Health. This project involves an in-depth survey of more than 3,000 Puerto Rican mothers in Puerto Rico, New York City, New Jersey, Connecticut, Massachusetts, Pennsylvania and Florida. No other nationally representative surveys have focused on the health of Puerto Rican mothers and their babies.

"The inclusion of Puerto Rico in this study, plus the collection of migration histories, make it possible for the first time to compare infant health outcomes for women in the various locations who are nonmigrants, one-time migrants, return migrants and repeat migrants," said Nancy S. Landale, associate professor of sociology and project director. "By its extension beyond the New York metropolitan area, this study is the first to represent Puerto Ricans living in various areas of the United States."

Puerto Rican children are notably disadvantaged, relative to non-Hispanic white children, in infant health outcomes.

"An understanding of the processes contributing to these unfavorable health outcomes is critical if we are to formulate effective policies to improve the well-being of Puerto Rican mothers and their babies," Landale said. "Given the growing volume of migration to the United States from Latin America and the Caribbean, we need to know more about the effects of the migration process on family patterns, health behaviors and maternal and infant health outcomes among Hispanic groups."

ATHLETICS

A regular column provided by Intercollegiate Athletics

Hall of Famer

Former Penn State quarterback **Todd Blackledge**, who led the Nittany Lions to their first National Championship in 1982, was chosen for induction into the GTE Academic All-America Hall of Fame.

Coach on committee

Women's basketball Coach **Rene Portland** has been named as an NCAA representative to the USA Basketball Women's Select Committee. As a committee member, Portland will help in identifying and selecting coaching staffs and players for USA Basketball's women's teams in major international competitions.

Coach of the Year

Mark Pavlik, coach of the men's volleyball team, was named EIVA Coach of the Year for leading the team to an overall record of 29-1. The team was ranked No. 2 in the nation for much of the regular season, captured its seventh straight Eastern Intercollegiate Volleyball Association championship and finished third in the NCAA Final Four tournament in Columbus.

Academic excellence

Coach **Bob Krimmel's** swimming team ranked No. 1 among 57 Division 1 women's programs saluted by the College Swimming Coaches Association of America for academic excellence. The Lady Lions had a cumulative grade-point average of 3.34 for all swimmers and divers on the eligibility list, which earned a "superior" citation. The men's program won a "commendable" rating with its cumulative GPA of 2.81.

Sports Illustrated ranking

Penn State's athletic program was No. 8 in a *Sports Illustrated* ranking of the top 50 athletic schools. The magazine surveyed the country's 305 institutions of higher education which play Division I basketball and assigned point totals to criteria it surveyed including number of intramural sports, the number of varsity sports, percentage of students who participate in athletics or intramural sports, on-campus athletic facilities, graduation rates and a host of other criteria. The University currently has 29 varsity sports, 16 intramural sports and 57 recreation and sport clubs.

For the latest information on Penn State Sports, be sure to visit the official Intercollegiate Athletics site on the Web at <http://www.psu.edu> (click on sports).



New carpet

Sporing Valley Turf of Lancaster recently installed new turf for the women's rugby club playing field on the University Park campus. The team won the 1997 national championship match on the field the weekend of May 3-4.

Photo: Greg Gresco

Five earn national Goldwater Scholarships

Four Penn State students at University Park and one at Penn State Erie, Behrend College, have been named recipients of the national Barry M. Goldwater Scholarships for academic excellence. Approximately 250 Goldwater Scholarships worth \$7,000 each are awarded annually.

The scholarship, established in 1986 to honor Sen. Barry M. Goldwater, covers the cost of tuition, fees, books and room and board for the last year or years of undergraduate study in mathematics, the natural sciences and engineering.

—**David Dudzinski** of Dupont is a sophomore majoring in chemistry and biochemistry and molecular biology. His essay was "From Primary to Ter-

tiary Structure: The Protein Folding Problem." Dudzinski plans to pursue both M.D. and Ph.D. degrees and a career in pharmacology.

—**Janet Geoffroy** of State College is a sophomore majoring in astronomy and astrophysics and physics. Her essay was "An Improved Method for Finding Galaxies at High Redshift." Geoffroy plans to continue graduate study with a focus on galaxies and cosmology.

—**Alan Hall** of Erie is a junior majoring in electrical engineering at Penn State Erie. His essay was "Possible Ideas for Noise Reduction in Quantum Computing Systems." Hall plans to pursue graduate study in electrical engineering or physics and

hopes to obtain his professional engineer license.

—**David Kaczorowski** of Bethel Park is a junior majoring in biochemistry and molecular biology. His essay was "Study of Genetic Regulation to Combat Disease." Kaczorowski plans to pursue a career in biochemical or biomedical research with an emphasis on gene therapy technology.

—**Adria Liszka** of State College is a sophomore majoring in engineering science. Her essay was "Neonatal Oxygenation: Early Results of Research Development." Liszka plans to earn a Ph.D. in bioengineering with the ultimate goal of designing computerized systems for hospitals.

PENNSTATE INTERCOM

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**Back in town**

James Pawelczyk, assistant professor in the College of Health and Human Development, right, and Chris Minson, rear, a doctoral student in kinesiology doing ground-based research related to Pawelczyk's microgravity studies, demonstrated research related to some of the experiments Pawelczyk will conduct aboard the Neurolab Space Shuttle mission as a payload specialist. Bill Farquhar, a doctoral student in kinesiology volunteered as a test subject for the demonstration. Pawelczyk will spend much of his time between now and the target launch date of April 2, 1998, at the Johnson Space Center in Houston, but will return to University Park as often as possible.

Photo: Greg Grieco

University officials detail \$476 million in capital construction projects

Editor's note: In the May 15 issue of Intercom, as we were going to press, an outline of the proposed projects which are part of the University's five-year capital construction plan was given. A more detailed listing of the projects follows.

By LISA M. ROSELLINI
Public Information

Beginning this summer and on into the year 2001, the sound of earth moving and the buzz of power equipment will be audible at Penn State locations across the state as a result of a recently unveiled five-

year, \$476 million construction plan.

In an effort to meet Penn State's most pressing academic needs, University officials on May 14 mapped out a long-range construction plan that is expected to have a profound impact on educational programs at a number of campuses. A plan of this nature was not possible in past years because of the unpredictable disbursement of funding from the state. But in March, the governor announced the release of \$200 million in badly needed capital construction funds over the next five years.

See "Projects" on page 2

New budget strategies considered

The University is adopting new internal budget strategies that link income more directly with program costs and may expand its differential tuition program to better reflect differences in program costs.

"Even with the good news about the state appropriation for 1997-98, (a 3 percent boost in funding) our appropriation over the last six years in total has lagged behind inflation," said Gary Schultz, senior vice president for finance and business/treasurer.

"At the same time, our costs continue to rise and funding for grants for education and research is increasingly competitive. We are concerned about keeping a Penn State education affordable to families of average means, and we do not want these fiscal challenges to limit academic quality or the educational experiences of Penn State students."

See "Strategies" on page 3

Interim budget approved

The Board of Trustees on May 16 approved an interim maintenance and operating budget for the fiscal year beginning July 1.

The interim budget was approved for the period beginning July 1 at the level of the adjusted 1996-97 total operating budget of \$1,698,653,000 for all divisions, including The Milton S. Hershey Medical Center and all auxiliary enterprises.

"The University has adopted an interim budget so that the University has an approved fiscal operating plan from July 1 until the new 1997-98 budget is approved at the July Board of Trustees meeting," said Gary Schultz, senior vice president for finance and business/treasurer.

The board took no action on changes in tuition, salaries and wages, employee benefits or other necessary expense increases.

The University's final 1997-98 total operating budget will be submitted for approval at the July 11 Board of Trustees meeting, which will be held at the Berks Campus.

Inside



Road Scholars

Two budoists of recently hired faculty toured western Pennsylvania May 12-13. To see more photos from the trip, please see page 13.



Research

Composting may be even better for the environment than was previously thought. Compost humor may help to control pollution. For details, please see Focus on Research on page 19.

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Projects

Continued from page 1

Funded by the state's commitment and \$276 million in University money, the multi-million dollar improvements range from a \$14.7 million New Research Center at University Park, to more than \$11.4 million in infrastructure upgrades for telecommunication needs over the next five years, to a 165-unit complex to house students and their families at Penn State Harrisburg.

In total for fiscal year 1997-98, more than \$130 million will be spent on construction projects, the largest capital construction initiative in the University's history; in fiscal year 1998-99, about \$82 million will be spent on capital improvements, followed by an estimated \$118.4 million in building upgrades and construction into the millennium; and in the year 2000 to 2001, nearly \$47 million in construction and renovations are planned.

The news of the five-year plan has been greeted with enthusiasm. In the Eberly College of Science, several laboratories are being renovated and a new chemistry building, expected to cost nearly \$60 million by the time it's completed, is slated to go up in the year 2000 on the University Park campus. The design of the chemistry building will be paid for with \$8.75 million in state funds, while the estimated \$24.6 million construction costs related to phase I of the project will be funded with \$19.6 million from the state and \$5 million from University coffers. In addition, in the year 2001, Chandler Laboratory at University Park, currently used by the chemistry department, will be renovated through a \$10.2 million project and used by the College of the Liberal Arts.

"The new chemistry building is sorely needed. We have a general infrastructure problem that exists with

many of our buildings which are heavily used," Norman Fred, associate dean in the Eberly College of Science, said. "We have been lacking a state-of-the-art chemistry building that would allow our students to truly experience research on the scale that they should be experiencing here at a major research university like Penn State and we want to make sure we are well-positioned to meet the needs of future students."

Freed explained that not only are the labs used by those students majoring in the sciences — a number that has continued to climb, mostly because of increased interest in health professions — but also by students in nearly every major.

"While roughly three-quarters of our students majoring in the life sciences have extremely lab-intensive programs, we also provide service instruction at the undergraduate level. About 75 percent of student credit hours that we provide are actually offered to students outside of our college," Freed said referring to the University's general education requirements. "We are primarily a service college in our instruction at the undergraduate level and chemistry is the most heavily impacted department."

Also benefiting from renovations over the five-year period will be Sackett and the Engineering Buildings, Burrows Building and Berland Laboratory on the University Park campus. Renovations to Weaver and Patterson buildings have already begun. A new forestry building at a cost of \$12 million is scheduled for the year 2002, replacing Ferguson Building which will receive a facelift at a later date and be used for other purposes.

At Penn State Harrisburg, a new \$17.3 million library will grace the grounds sometime in fiscal year 1998-99. The projected 115,000-square-foot facility has already been designed. Also at Harrisburg, a study is under way to replace outdated housing units that during the 1950s were used as an Air Force base. More than \$16 million has been designated for this project.

"We anticipate that the new library can serve nearly 1.5 million potential users and will enable our students, faculty and staff to perform research and scholarly activities at a much higher level," said James South, associate vice provost at Penn State Harrisburg. "But despite these large monetary projects, we are equally happy with the

HIGHLIGHTS OF THE 5-YEAR CAPITAL CONSTRUCTION PLAN

Project	Funding	Construction dates
HUB/Robeson Cultural Center Complex (University Park)	\$23.3 million	1997-98
New Research Center (University Park)	\$14.7 million	1997-98
Football Training Facility (University Park)	\$13.8 million	1997-98
Multi-purpose facility (Behrend)	\$8.3 million	1997-98
New Child Care Facility (University Park)	\$2.3 million	1997-98
Library at Penn State Harrisburg, Capital College	\$14.4 million	1998-99
Student Housing (Penn State Harrisburg)	\$16.5 million	1998-99
Residence Hall-Phase I (Berks)	\$6 million	1997-98
Residence Hall-Phase II (Berks)	\$6.2 million	1998-99
Chemistry Building (design/Phase I) (University Park)	\$33.6 million	1998-99
Graduate Student Housing (University Park)	\$25 million	1999-2000
Classroom building (Altoona)	\$4.9 million	1999-2000
Library and Classroom (York)	\$11.9 million	2000-2001



Coming soon

This is an artist's conception of the New Research Center at University Park. The facility is expected to cost \$14.7 million, and will be constructed in 1997-98.

funding we also received for two smaller projects that will greatly improve our infrastructure." South was referring to the \$1.1 million heating system project and the \$3.5 million electrical distribution project that will upgrade aging systems at the campus.

In the year 2000-01, Penn State York is also slated to build a library and general classroom building. Nearly \$12 million has been earmarked for that project, which will replace the existing library facility built in the 1970s to serve about 400 students — a far cry from York's 2,100 enrollment figure. In addition, the general classroom building to be constructed will contain a 650-seat auditorium and technological capabilities.

Donald Goffnat, campus executive officer at Penn State York, said the classroom building and library will help the commuter campus fulfill its obligation to the community, which deeded 33 acres to the campus for \$1 on the condition that some improvement to the grounds be made that benefited the York region. To date, the campus has created a park, and installed tennis courts and

a soccer field.

At Penn State Berks, phase one and two of a residence hall project and the expansion of the dining facility have garnered a total of \$13.2 million; the third phase of a residence hall construction project at Penn State Erie will receive \$6.4 million, while a \$25 million graduate student housing project at University Park is on the books for 1999.

Most of the projects in the five-year plan have already been approved by the Board of Trustees, some are even ready to go to bid for construction, such as the Leonhard Building and new research center at University Park and the nearly \$23.3 million HUB/Robeson project.

President Graham B. Spanier stressed that despite the large number of projects funded by the capital plan, there are still construction projects awaiting funding. So far, the state Legislature has approved \$363 million worth of capital building projects, but funds for those projects have not been released. The Legislature is currently reviewing Penn State's capital budget request of \$98 million.

PENN STATE'S FIVE-YEAR CAPITAL PLAN (in millions)

Fiscal year	State funding	University funding	TOTAL
1997-98	\$40.6	\$89.4	\$130
1998-99	\$41.9	\$40.3	\$82.2
1999-2000	\$40	\$78.4	\$118.4
2000-2001	\$41.7	\$5	\$46.7
2001-2002	\$39.9	\$11	\$50.9
	\$204.1	\$224.1	\$428.2
Additional development (funded by Penn State)	\$48		\$48
TOTAL CONSTRUCTION PLAN			\$476

Figures are rounded.

From the Trustees Docket

Arnelle earns national trustee association award

President of Penn State's Board of Trustees, **H. Jesse Arnelle**, attorney and senior partner of Arnelle, Hastie, McGee, Willis and Greene of San Francisco, has received the 1997 Distinguished Service Award in Trusteeship from the Association of Governing Boards of Universities and Colleges.

The award, which is granted each year to one trustee from a public institution and one from a private institution, is sponsored by TIAA-CREF to recognize the service and accomplishments of volunteer leaders. Arnelle received a certificate and a \$10,000 unrestricted grant to Penn State in his name at the association's National Conference on Trusteeship in San Diego in April.

"It is with deep respect and admiration that I nominate H. Jesse Arnelle for the award," wrote University President **Graham B. Spanier**. "Jesse is a true servant and leader. He, in my judgment, has set a standard of excellence and leadership for Penn State's board by making difficult decisions in which honesty, collegiality and integrity were his hallmarks."

Accepting the award, Arnelle said, "What I cherish most about receiving this Distinguished Service Award in Trusteeship is the aspect of service. I am a firm believer in service—service to your family, community and business endeavors, and perhaps more important, service to your fellow man. I



H. JESSE ARNELLE

believe that service is my privilege. We are the stewards of institutions across the nation and our collective goal is to provide the thousands of young men and women in our care with the opportunity to enrich their minds, broaden their horizons and help them realize their dreams."

Arnelle was first elected to the Penn State Board of Trustees by the alumni in 1969 and has been reelected for eight successive three-year terms. He was elected chairman in 1996, becoming the first African American to serve in that post.

Early in his tenure, Arnelle was instrumental in developing the committee structure that makes Penn State's board participatory and active, a structure that has been cited as a model for public institutions. He is co-founder of the Renaissance Fund, which has provided more than \$2 million in schol-

arships for more than 1,500 of the brightest and neediest students.

A champion of diversity, affirmative action and civil rights causes, Arnelle has met often with students and faculty and staff over issues of racial climate and supported programs and funding that brought about increases in minority student enrollment in the 1980s. He was a leader in both the divestment of University funds in South Africa in 1987 and reinvestment after the change in leadership in 1994.

More recently, Arnelle helped bring about a redesign of the 22-campus system and was instrumental in the merger between Penn State and the Dickinson School of Law and the merger of the Geisinger Foundation and Penn State's Hershey Medical Center's clinical enterprises to form the Penn State Geisinger Health System, both of which take effect July 1.

A 1955 graduate of Penn State in political science, Arnelle was both an All-American in basketball and All-American honorable mention in football. He graduated from The Dickinson School of Law in 1962 and recently received an honorary doctorate of law from Dickinson. He served in the Peace Corps in Turkey, India and Washington D.C. and was later admitted to practice before the U.S. Supreme Court and the Pennsylvania and California Supreme Courts.

Architects named for University's athletic facilities projects

As part of the five-year capital spending program announced on May 13, the University is moving ahead with the development of several construction projects for intercollegiate athletics this year that will be paid for with University funds and private gifts.

In order to ensure that these projects are completed in a time frame consistent with athletic needs, the Board of Trustees on May 16 approved the appointment of architects who will design and oversee the projects.

"Intercollegiate Athletics recently completed a master plan to identify deficiencies in their competition facilities and identified three areas of need—the indoor track, the Louis E. Lasch Football Building and the locker facilities for other sports," said **Gary Schultz**, senior vice president for finance and business/treasurer.

The existing indoor track, in the Greenberg Indoor Sports Complex fieldhouse, does not meet the standard for NCAA tournament competition and the structure would require a substantial investment to stabilize it and correct an existing liability caused by sliding snow.

The new facility to be located near the outdoor track on Porter Road will have at least a 220-meter track with spectator seating and amenities. It also will have support spaces such as locker rooms, a training room, a weight training room and storage and will serve both the new indoor and the existing outdoor tracks.

The existing fieldhouse of the Greenberg Indoor Sports Complex will be demolished to make way for the new Louis E. Lasch Football Building to be located adjacent to the outdoor practice fields and close to Holuba Hall. The building will include locker facilities, equipment room, coaches' offices, a training and rehab area, meeting rooms, academic support areas, a team lounge, video rooms and storage. Additional parking will be provided at both the north and south sides of the new facility.

Part of the remaining Greenberg Indoor Sports Complex will be renovated with the new construction



Changes coming

The fieldhouse of the Greenberg Indoor Sports Complex on the University Park campus is going to be torn down to make way for the new Louis E. Lasch Football Building, which will be adjacent to the outdoor practice fields and close to Holuba Hall.

Photo: Greg Gienio

tion and a new public entrance for visitors will be located on the south side of the building.

The existing Lasch Building, formerly called East Area Locker Room, will be renovated to provide a multi-sport activity building and include locker rooms, a weight training room, training and rehab rooms, academic support areas, equipment storage and an athlete's lounge for several women's and men's sports.

This renovation will not only meet the needs of several sports, it will aid in meeting gender equity issues required by Title IX.

The board approved the appointment of Hoffman-Popovich of Boalsburg and NBBJ of Columbus, Ohio, to design and oversee construction for the indoor track, and L.D. Astorino from Pittsburgh and HOK from Kansas City, Mo., to design and oversee construction of the new and renovated football training facilities.

The board also approved the appointment of Susan Maxman Architects of Philadelphia to design and oversee construction of two residence halls at the Berks Campus, which also are part of the 1997-98 Capital plan and will be constructed with University funds.

From the Trustees Docket

Penn State-Dickinson merger is progressing on schedule

Penn State's merger with The Dickinson School of Law is on track and expected to begin as scheduled on July 1. On that date, the law school will officially be known as The Dickinson School of Law of the Pennsylvania State University, its employees will be on Penn State's payroll and the transition period in the governance of the law school will begin.

John Brighton, executive vice president and provost, told the Board of Trustees May 16 that the University has identified at least 36 different functional areas for integration with Dickinson and that a high-speed communications link between the two institutions will be installed in early June.

"Dickinson will then have full data capacity to integrate with Penn State's administrative computer systems," Brighton said. "We believe that by next year, the registration, billing, student aid and admissions systems will be up and running at Dickinson."

On Jan. 17, nearly 30 years after the possibility of an alliance was first considered, Penn State's Board of Trustees voted unanimously to approve a merger with the 163-year old law school. The law school's board had previously approved the merger, and so the vote of Penn State's trustees was the final action needed.

During a three-year transition period that begins July 1, Dickinson's board of trustees will be augmented by the addition of **H. Jesse Arnette**, president of Penn State's board, and two senior Penn State administrators. During the first stage of the merger, this augmented board will oversee Dickinson's operations. After the merger is complete, it will become an advisory board.

Brighton said that **Peter Glenn**, dean of the law school, is a "tremendous leader," and that Penn State is delighted with the intensity of the cooperative efforts between Penn State and Dickinson.

Brighton also updated the board on other on-



Name change coming

When the merger between The Dickinson School of Law and Penn State becomes official on July 1, the law school will be known as The Dickinson School of Law of the Pennsylvania State University.

going University activities, including those of the University Planning Council, the Center for Quality Improvement, the Schreyer Institute for Innovation in Learning, the Leonhard Center for the Enhancement of Engineering Education, the IDP Center for Excellence in Learning and Teaching and the University Faculty Senate's Special Committee on General Education. He also reviewed issues related to faculty promotion and tenure.

Trustees approve property purchases for 'protection zones' at University Park airport

The Board of Trustees on May 16 approved the Federal Aviation Administration's (FAA) plan to purchase five properties near the University Park Airport. The purchases are funded principally by the FAA.

The plan creates the necessary "runway protection zones" around the airport and also helps protect its close neighbors in line with the runway from excessive noise and other annoyances associated with arriving and departing planes.

The board also approved a lease that will allow the construction of a large aircraft hangar and office space for an aviation business relocating to the airport. It will include an aircraft charter service, a corporate jet aircraft refurbishing service, a jet aircraft maintenance service and a flight school.

Robert C. Finley, assistant to the associate senior vice president for business and finance, told the board that the University's purpose in purchasing the properties is twofold. The first is to ensure sufficient unobstructed airspace exists around the airport for approaches and takeoffs by aircraft, and the second is to ensure that compatible land uses — such as light industrial development — are closest to the airport.

"The airport wants to be the best good neighbor it can be," Finley said. "With these properties becoming available, we have an opportunity to do this right, and that's what we're going to do."

The property purchases are in accordance with the airport's master plan, which includes a main runway extension project begun last fall. The extension project is part of a long-range improvement plan designed to meet the existing and growing demand for air service to and from central Pennsylvania.

The airport serves as a gateway for Penn State and other major employers in the region. With nearly 200,000 passengers a year, it is the seventh busiest airport out of 16 scheduled service airports in the Commonwealth.

Consistent with FAA requirements, all purchase prices have been approved by the FAA. The project is funded 90 percent by the FAA, 5 percent by the Pennsylvania Department of Transportation and 5 percent from the passenger facilities charge that airline passengers pay when they buy an airline ticket.

The airport's \$18 million runway extension project includes the lengthening of the runway from its current 5,000 feet to an ultimate length of 6,700 feet, as well as other supporting infrastructure improvements.

The airport hosts 54,000 takeoffs and landings a year. Three airlines using the airport have nearly 40 regularly scheduled daily flights to and from Philadelphia, Pittsburgh, Washington, D.C., and Detroit.

In addition to serving area businesses and travelers, the airport is home to many aviation-related services. It is used by various law enforcement agencies, emergency medical services and air freight carriers. It also will be home to the Pennsylvania Air National Guard 12th Air Traffic Control Flight sometime in late 1998.

The airport tenants and visitors to the University Park Airport generate significant economic benefits on an annual basis, providing approximately 139 jobs and \$12 million in payroll. Also, a recent report estimated the impact of direct spending and secondary visitor-related spending at \$68 million.

Four new trustees are elected to board

Alumni and delegates of agricultural and industrial societies elected four new members and re-elected three incumbents to serve on the Board of Trustees in elections held May 15 at the University Park campus. All will serve a three-year term beginning July 1.

Joining the board as new members elected by the alumni are **David R. Jones**, 1954 graduate, assistant managing editor of *The New York Times*, and **Anne Riley**, 1964 and 1975 graduate, teacher at State College Area High School.

Re-elected to the board by the alumni is **Ben Novak**, 1965 graduate, senior partner and founder in the law firm of Novak, Stover & Furst, State College, and a trustee since 1988. **Marian U. Copper-smith**, also an alumni trustee incumbent, chose not to seek re-election.

Joining the board as a new member elected by the agricultural society delegates is **Carl T. Shaffer**, vice president of the Pennsylvania Farm Bureau board of directors.

Re-elected by the agricultural societies' delegates is **Obie Snider**, 1950 graduate, owner of Singing Brook Farms, Bedford, and a trustee since 1979.

Joining the board as a new member elected by the industrial societies' delegates is **Ira M. Lubert**, 1973 graduate, managing director of Technology Leaders L.P., Wayne.

Re-elected by the industrial society delegates is **Edward R. Hintz**, 1959 graduate, president of Hintz, Holman and Hecksher, Inc., of New York City and a trustee since 1994.

From the Trustees Docket

Panel combats alcohol, tobacco and drug abuse

Maureen Gaffney, chair of the Commission for the Prevention of Alcohol, Tobacco and Other Drug Abuse, told the Board of Trustees on May 16 that collaboration will play an important role in further reducing student substance abuse and called for University leadership to use its influence in addressing the problem.

Gaffney, campus health services and counseling director at Penn State Hazleton, and fellow commission members Susan Kennedy, associate director of University Health Services, and Judith Vicary, associate professor of biobehavioral health, reviewed the commission's 1996-97 activities for the trustees.

"Collaboration and leadership across the University will help us formulate initiatives that foster an academic and work environment that values healthy lifestyle choices," said Gaffney.

In his State of the University Address this year, President Graham B. Spanier identified alcohol-related behaviors among the most serious problems facing higher education.

The commission is an interdisciplinary advisory group that consists of faculty, staff, student and community representatives from all campus locations. Its goals are to increase the commitment from University leaders; decrease the number of stu-



Testifying

President Graham B. Spanier testified recently at a Pennsylvania Liquor Control Board hearing at the Penn State Conference Center Hotel. The PLCB's board of senators questioned Spanier about alcohol use at Penn State and what the town and the University are doing to monitor underage drinking.

Photo: Greg Grieco

dents experiencing problems related to alcohol, tobacco and other drug use; decrease student use of these substances and increase faculty, staff, student, alumni and community involvement.

This winter, the commission sent a Core Alcohol and Drug Survey to all faculty and staff at all campus locations and a series of regional meetings and presentations were

held throughout the Commonwealth Educational System.

The commission collaborated with various departments and organizations both on campus and off to coordinate the communication and implementation of intervention efforts. A few commission members also joined the Greek Task Force, which is developing new alcohol policies for the Greek community.

Among its current projects is a freshman seminar on life skills and making healthy choices to be presented during Freshman Testing, Counseling and Advising Programs this summer. Other prevention programs include late-night activities at the HUB, a University Health Services Web site, anti-alcohol abuse messages on University scoreboards at Beaver Stadium and The Bryce Jordan Center, and cooperation between the commission, the State College Tavern Owners and Downtown State College associations.

University efforts already are paying off. The percentage of undergraduates who binge on alcohol dropped at Penn State this year, according to a Penn State Pulse survey administered by the Student Affairs Office in February. The survey found that 43 percent of men and 46 percent of women had binged on alcohol, as opposed to 51 percent of men and 54 percent of women surveyed last year.

The University's efforts also are being recognized nationally. Gaffney reported the commission's three-year strategic plan has been identified as one of the best practices in alcohol abuse prevention and will be published as part of a 1997 national resource book, *Promising Practices: Campus Alcohol Strategies*.

Technology transforms traditional classrooms and learning

Faculty and students are moving beyond their traditional classroom roles and exploring active and collaborative approaches to learning in classrooms without walls.

On May 16, John Harwood, director of Education Technology Services, gave the Board of Trustees an overview of how faculty and students are using information technology to strengthen teaching and learning.

Drawing on the University's computing resources and the World Wide Web, initiatives such as "Project Vision" at six Commonwealth Campuses are joining faculty, staff and information resources from across the globe to create effective communities of teachers and students.

Project Vision students at Penn State Altoona, Berks, Delaware County, McKeesport, York and Mont Alto communicate with one another by laptop computers. Faculty report having better and more interaction with their residential and distance Project Vision students and say that technology has enabled them to change the focus of their classes from lectures to learning.

At University Park, Paul Sokol's Physics 201 class meets not in a lecture hall, but a computer lab where students working in groups of three use computer simulations to learn the principles of inertia and motion — learning physics by doing physics.

Faculty are transforming themselves from lecturers

"Technology has already had significant impact on both graduate and undergraduate education, changing the way students and faculty interact with each other and with the course material."

John Harwood, director
Education Technology Services

bound in physical space to mentors encouraging student collaboration in cyberspace. Students play a more active role in seeking information and evaluating possible solutions instead of memorizing facts and figures.

"Technology is the great enabler, but behind the technology lies the vision and the will to change," Harwood said. "Technology has already had significant impact on both graduate and undergraduate education, changing the way students and faculty interact with each other and with the course material."

A few examples:

■ An estimated 98 percent of Penn State students use e-mail. While faculty still hold office hours, technology has significantly extended their availability to students.

■ About 5,000 students participated in news or bulletin board discussion groups on course topics while another 2,000 students in the Commonwealth Educational System are using computer conferencing to exchange ideas from a distance.

■ Faculty at all Penn State locations are enriching their courses with Web images, sound, movie clips, data and simulations. Alistair Fraser, professor of meteorology, uses the Web to teach numerical models for predicting climate change; Lyle Long, associate professor of aeronautical engineering, uses it to demonstrate concepts of flight; and Mary Ann Lyman-Hager, director of instructional technology, uses it to teach French.

According to a November 1996 survey by the Office of Student Affairs, 54 percent of student respondents said the use of computers in Penn State classes should be increased — 85 percent thought that computing would either be very important or extremely important to their post-graduate careers.

Harwood predicted that within five years students will take entire courses electronically, with most dimensional courses including a significant electronic residence: electronic textbooks. Web tutoring, Web display of student projects.

In a virtual future where classrooms don't necessarily have walls, Penn State and other members of the Big Ten Consortium for Institutional Cooperation will likely exchange students and courses.

From the Trustee Docket

Undergraduate and graduate programs see some changes

On May 16, the Board of Trustees took the following action on graduate and undergraduate programs. For more detail or an explanation of these changes, please visit the *Intercom* Online at <http://www.psu.edu/ur/INTERCOM/Home.html>.

■ Undergraduate Programs:

College of Agricultural Sciences

Agricultural business major: Addition of new options: food option and horticulture option. The options will be available at both the University Park and Berks campuses. For the food science option, 36 credits are required; for the horticulture option, 33 credits are required.

College of Earth and Mineral Sciences

Major in materials science and engineering: There will be a change in the name from "option in polymer science" to "option in polymer science and engineering." Students will have a choice of two "study tracks." The first will emphasize the traditional science and engineering part of the subject. The second study track will emphasize polymer engineering and related technologies. Although the hands-on experience is not offered at the University Park campus, students will obtain this experience through an agreement with the Pennsylvania College of Technology.

College of Engineering

Major in architectural engineering: Changes in options available. The environmental option will be dropped; and new options known as a lighting/electrical option and a mechanical option will be offered. Both options will require 42 credits.

Strategies

Continued from page 1

The Budget Strategies Committee of the University Planning Council, which was established in 1995 to strengthen Penn State's planning and budget process and guide its academic mission, has been studying Penn State data and data from other Big Ten universities to develop new budget strategies in light of the fiscal challenges projected for the next five years.

"Cost centers as the basis of budgeting and differential tuition are two strategies that show promise," Schultz said.

In academic cost centers, a direct relationship is established between available funds and income generated. The Milton S. Hershey Medical Center and the Pennsylvania College of Technology already operate as separate cost centers and the Commonwealth Educational System has been operating on a modified cost center basis since 1984.

The University Planning Council has endorsed and the president has approved the idea of associating income more directly with academic program activity as practiced in the CES approach. "Cost centers will begin to operate in the 1997-98 fiscal year for the following locations: University Park, Commonwealth College, Erie, Harrisburg, Schuylkill, Abington, Altoona, Berks/Lehigh Valley and Great Valley," Schultz said.

A group working on differential tuition has been looking at further differentiating the University's tuition structure, considering additional course fees for more costly programs and examining differential tuition policies used by peer institutions.

Penn State currently has different tuition rates for University Park and CES locations, undergraduate

College of Health and Human Development

Major in human development and family studies: Changes in options available. The name of the "adult development and aging" option will change to the "adult development and aging services option;" the child and youth services option will change to "children, youth and family services option;" the family services option will be dropped.

■ Graduate Programs:

College of Health and Human Development: There is a change in the master of science degree program in nursing.

The National Organization of Nurse Practitioner Faculty established new guidelines and program standards for nurse practitioner education. To meet the new national guidelines, the School of Nursing reorganized and renumbered the family nurse practitioner support and specialty courses to clarify that the contact and experiences in this track are different from the neonatal nurse practitioner track. In addition, there is a change from six tracks in the programs to four tracks.

College of Engineering: New program offered to earn master of engineering degree in architectural engineering.

Penn State Harrisburg, Capital College: Will offer a master of science degree program in computer science.

College of Medicine: Proposed establishment of the Department of Health Evaluation Sciences.

and graduate programs and resident and non-resident students. It also has tuition surcharges for upper division and graduate students in specific areas such as engineering and related programs.

Providing background on instructional costs, John A. Brighton, executive vice president and provost, explained to the board how costs vary by student level and academic program.

"In higher education, instructional costs are measured on a per-student basis and are determined by who teaches the classes, how many students they teach and what subjects they are teaching. A small section of advanced students taught by a senior professor in a laboratory or clinical setting is more expensive than a lower division lecture taught by a junior faculty member in a large classroom," Brighton said.

At all Penn State locations, the average class size decreases from lower division to upper division and graduate courses. Instructional costs also vary by program relating to such factors as accreditation standards, the need for expensive laboratory equipment and supervision requirements for clinical experiences.

"We believe that students at a public, land-grant university such as Penn State should have the opportunity to explore different majors. As such, we want to minimize any tuition differentials that may affect student's academic choices," said Brighton. "At the same time, we recognize that there are differences in instructional costs and have concluded that Penn State should further differentiate its tuition rate schedule."

The Board of Trustees will consider a recommendation on differential tuition to be implemented over several years at its next meeting, July 13.

Promotions

Staff

Elaine D. Holland, staff assistant VII at The Hershey Medical Center.

Harold J. Horton, manager, Instructional Technology Services in Continuing and Distance Education.

H. C. Hosterman, assistant director for budget in Office of Budget and Resource Analysis.

Kathryn E. Kensinger, staff assistant VII in College of Health and Human Development.

Susan M. Kunkle, assistant coordinator, research funds in Research and Graduate School.

Doris J. Lineweaver, administrative assistant I at The Hershey Medical Center.

Joy L. Lose, staff assistant VIII in College of Health and Human Development.

Lisa A. McCully, projects specialist at The Hershey Medical Center.

Marc E. McMullin, assistant director, Alumni Relations in College of the Liberal Arts.

Gail D. Miller, staff assistant VI in Business Services.

Patricia M. Moore, staff assistant VI at Penn State Erie, Behrend College.

Glenda I. Newfield, staff assistant V in Business Services.

Susan Nyman, staff assistant VI in College of Agricultural Sciences.

Sara L. Peterson, human resources aide II in College of Earth and Mineral Sciences.

Pamela M. Pettit, staff assistant VI at The Hershey Medical Center.

Melissa A. Price, staff assistant VI in College of the Liberal Arts.

Shelley E. Readel, proposal and grant aide at Penn State Erie, Behrend College.

Diane L. Resides, assistant director in Student Affairs.

Sandra L. Robbins, admissions counselor II at Penn State Harrisburg, Capital College.

Jolene K. Sawyer, coordinator, echocardiography laboratory at The Hershey Medical Center.

Wanda G. Scalfie, staff assistant V in Office of Human Resources.

Raymond F. Scheetz, research support assistant at The Hershey Medical Center.

Cynthia S. Seagrath, assistant extension agent in College of Agricultural Sciences.

Eric L. Umberhook, senior system programmer in Computer and Information Systems-Center for Academic Computing.

Karen L. Wagner, science and research information officer in University Relations.

William R. Wallace, cinematographer/videoographer II in Continuing and Distance Education.

Stacey W. Wance, engineering aide in Applied Research Laboratory.

Matthew W. Weber, assistant director, Medical Center Billing Services at The Hershey Medical Center.

Kimberly S. Winick, information technology associate in Computer and Information Systems-Center for Academic Computing.

Technical Service

Diana D. Behney, environmental health worker-group leader at The Hershey Medical Center.

Larry J. Johns, maintenance worker-general in Housing and Food Services.

Matthew A. Smith, mechanic A at Penn State Erie, Behrend College.

LECTURES

Gov. Ridge to speak at ICDE world conference

Pennsylvania Gov. **Tom Ridge** will welcome educators and professionals from around the world to the 18th World Conference of the International Council for Open and Distance Education (ICDE) hosted by Penn State from June 2 to 6.

All conference plenary sessions will be held at The Bryce Jordan Center, with concurrent sessions at the Penn State Conference Center Hotel and the Nittany Lion Inn.

The governor will speak at 9:15 a.m. Monday, June 2, during opening ceremonies for the conference "The New Learning Environment: A Global Perspective." Five featured speakers and more than 700 educators and professionals from 60 nations will present their research and participate in discussions throughout the conference.

President **Graham B. Spanier** also will take part. He will discuss "Partnerships and the Evolution of the World Campus" on June 5.

In addition to Ridge and Spanier, conference participants include:

— **Nicholas Negroponte**, founder and head of the Media Lab-

oratory at Massachusetts Institute of Technology and author of *Being Digital*, who will discuss "The Changing Technological Environment" on June 2.

— **Barry Munitz**, chancellor of the California State University, who will speak on "The New Educational Paradigm" on June 3.

— **Maris O'Rourke**, acting head of the Education Sector of the World Bank, who will talk about "Technology, Education and Sustainable Development" on June 4.

— **Edith Cresson**, member of the European Commission, will address "Opportunities for International Cooperation" on June 5.

A technology exhibition coordinated by Applied Business Telecommunications also will be presented in conjunction with the conference.

For more information about the conference, visit the Web site at <http://www.cde.psu.edu/ICDE/brochure>; or contact **Anne Stevens** at (814) 865-2143.

"Landscapes of Mystery" conference set for June 20-22

Oscar nominee **Donald Westlake**, who has been called the "champion of crime horror," is coming to Penn State's "Landscapes of Mystery" conference, June 20-22, on the University Park campus. The conference is geared toward mystery readers, writers and aspiring writers.

Westlake has written dozens of novels, stories and screenplays, including *The Grifters*, which was nominated for an Academy Award for Best Screenplay in 1991. He is president of the Mystery Writers of America, which in 1993 named him Grand Master, its highest honor. More than 50 million copies of Westlake's books are in print worldwide. Some appear under his pseudonyms — **Richard Stark**, **Jucker**, **Go**, **Timothy J. Culver** and **Curt Clark**.

At Penn State, the prolific author will participate in readings and discussions, including a panel discussion titled "Murderously Funny." He also will sign copies of his books, including *The Ax*, a novel about the deadly consequences of corporate downsizing, to be published in June.

Also on the agenda:

— "The 10 Greatest Serial Murder Stories Ever Written," presented by **Philip Jenkins**, history professor and author of numerous popular culture studies;

— "Real Life Arson Investigation," with **Shelly Reuben**, a mystery writer and arson investigator;

— "The Scene of the Crime — Regional Mystery Fiction," with **George Demko**, a geography professor at Dartmouth College and Alumni Fellow of the College of Earth and Mineral Sciences;

— "Convincing the Reader to Buy Your Book," with **Kate Stite**, editor-in-chief of the *Armchair Detective*, the premiere journal for mystery readers and scholars; literary agent **Stuart Krichewsky**; and mystery reviewer **Molly Weston**.

— "Collecting First Editions," with **Dale Carter**, California State University professor of Spanish and founder of Latin Blood Books, and **Jeannette Bragger**, a Penn State professor of French and a first-edition mystery collector.

For registration information, call (800) PSU-TODAY.

Business lecture series continues

Carolyn R. Dexter, professor of management, is the featured presenter at the next installment of the Current Issues in Business lecture series sponsored by the Penn State Harrisburg School of Business Administration.

Dexter's noon presentation June 10 at the Penn State Harrisburg Eastgate Center will focus on "The Role of

Social Ties in Corporate Competitive Strategy."

In her talk, Dexter will focus on the characteristics of an effective corporate strategy and the process by which a competitive strategy is formulated and maintained.

The presentation at the Eastgate Center, 101 N. Seventh St., Harrisburg, is free. To register, call (717) 772-3590.

Postsecondary education conference set for June 9-11

A conference to build an agenda between the United States and Australia designed to involve postsecondary education in economic development is slated for June 9-11 on the University Park campus.

The "Conference on Strengthening Postsecondary Education's Contribution to Economic Development" will provide an opportunity for the exchange of ideas and collaboration between educa-

tional professionals and key stakeholders in the process of economic development at the state and national levels.

Sponsored by the Australia-New Zealand Studies Center and the Center for the Study of Higher Education, along with a number of Australian and American institutions, the event will feature high-level Australian and North American university

administrators, as well as experts in technology transfer, university-private sector collaboration, employer-labor relationships, and learning-work linkages.

The conference fee is \$280. To register, call (800) 778-8632. For more information, contact **Pat Corbett** at (814) 863-1603 or by e-mail at pac9@psu.edu.

News in Brief

Health Matters Programs

To register for these programs, contact **Jan Hawbaker** at (814) 865-3085 or jgh3@psu.edu.

Weight Watchers AT WORK

Section one will meet from noon to 1 p.m. Tuesdays, June 10-Aug. 12 in 101 Electrical Engineering East Building (with the following exceptions: the June 17 session will meet in 132 EEE and the July 8 session will meet in 201 EE West). Section two will meet Wednesdays, June 11-Aug. 13 in the Paul Robeson Cultural Center auditorium. Cost: \$115 (lifetime members, \$105). Members of the HealthAmerica

HMO may be reimbursed.

Yoga Series

Three seven-week sessions are still open; each meets from noon-1 p.m. Cost is \$35 per session, reimbursable to HMO participants taking the series for the first time.

Section SU2: Tuesdays, July 22-Sept. 2, 110 (Living Center) Henderson Building

Section SU3: Wednesdays, June 11-July 23, 133F Johnston Commons

Section SU4: Wednesdays, July 30-Sept. 10, 133F Johnston Commons

Traffic alert

University Drive will be closed from Nimitz Avenue (first cross street south of Atherton Street) to South Atherton Street until about Aug. 22. People needing to access Atherton Street (Business Route 322) from campus should use Atherton on the west, Allen or Pugh streets to the south and the bypass (US 322) to the east.

During this time, University Drive will be reconstructed. State College Borough has made special provisions for anyone who lives on University Drive to reach their residence.

Faculty/Staff Alerts

National Cancer Survivors Day

Hershey will join with more than 650 communities throughout the United States on Sunday, June 1, in celebration of life as part of the 10th annual National Cancer Survivors Day, the world's largest cancer survivor event.

The Central Pennsylvania Oncology Group and the Penn State University Cancer Center at The Hershey Medical Center will host the local survivors day event on the front lawn of the medical center from 1 to 4 p.m.

For more information, contact The Central Pennsylvania Oncology Group at (717) 531-8341.

Shaver's Creek activities

Shaver's Creek Environmental Center has several activities planned in June:

■ On Saturday, June 7, join Shaver's Creek's Insect Walk from 1 to 3 p.m. Admission is \$4 for nonmembers and \$3 for members.

■ On Sunday, June 8, from 2 to 3:30 p.m., children ages 8 and above can discover interesting ideas to occupy their active bodies and minds with the New Games program. Admission is \$5 for nonmembers and \$4 for members. Children ages 8 to 12 are admitted for \$2.50.

■ On Saturday, June 14, from 10 a.m. to 1 p.m., Local artist **Denise Wagner** will lead participants on a multimedia tour of the life and habits of the bobcat. Admission is \$2.50 for nonmembers, free for members.

■ Take a walk with classic nature writers on Saturday, June 21, from 1 to 3 p.m. to learn the fundamentals of nature writing. Admission is \$6 for nonmembers and \$5 for members.

Preregister for each of these programs by calling Shaver's Creek Environmental Center at (814) 863-2000 or (814) 667-3424.

Town/gown relations focus of president's radio call-in program

The relationship between Penn State and surrounding communities is the topic of the next edition of "To the Best of My Knowledge," President **Graham B. Spanier's** monthly call-in program on WPSU-FM (90.1, 91.5 and 106.7), airing at 7 p.m. Tuesday, June 10.

Despite the fact that Penn State contributes greatly to the Centre Region's quality of life and economic expansion, many are demanding that the University do more. Listeners with opinions about Penn State's proper role in the community are invited to join Spanier and his guests, **Bill Welch**, mayor of State College, and local businessman and University trustee **Marian Coppersmith Fredman**, by calling (800) 543-8242 during the hour-long program.

Internet users will be able to link to sound and pictures from the program at www.psu.edu/ur/tech/tech.html; and they will be able to submit questions and comments via e-mail to response@psu.edu.

Hosted by **Patty Satalia**, "To the Best of My Knowledge" is a series designed to explore topics of concern to higher education and to allow listeners a chance to communicate directly with Penn State's president.

Library schedule

University Libraries at University Park will operate on summer session hours, June 11 through Aug. 9. All libraries will be closed on Friday, July 4.

For information on hours of library service, call (814) 865-3063, type **HELP HOURS** when using the Library Information Access System (LIAS) or visit the Libraries' World Wide Web home page at <http://www.libraries.psu.edu/>.

Upcoming HRDC courses

To register for these or other Human Resource Development Center programs, complete the registration form found in the back of the Spring/Summer HRDC catalog, and fax to (814) 865-3522.

■ **Negotiate for Win-Win Outcomes, COM 011**
 Learn the techniques for planning and conducting effective negotiations. June 13 and 20, 8:15 a.m. to noon, 319 Rider Building. Cost: \$55.

■ **From Frazzled to Focused: Positive and Productive Telephone Skills, COM 045**
 June 18 and 25, 1:30-4:30 p.m., 319 Rider Building. Cost: \$55.

■ **Designing Effective Computer-Based Presentations, COM 009**
 June 18, 10 a.m. to noon, 141 Computer Building. Cost: \$35.

■ **Managing and Organizing Your Electronic Files, PRO 002**

Improve your Windows-based filing systems and enhance your information management skills. June 23, 10 a.m. to noon, 116 Wagner Building. Cost: \$35.

■ **Program/Project Management, PRO 032**
 Manage complex technical projects and explore the requirements, risks and constraints imposed by various contract documents. June 26, 9 a.m. to 4 p.m., 319 Rider Building. Cost: \$70.

■ **Adapting Work Processes to Manage Change, LDR 058**

June 27, 1:30-3:30 p.m., 319 Rider Building. Cost: \$25.

■ **Successful Cross-Cultural Communications II, COM 025**

June 27, 8:30 a.m. to noon, 319 Rider Building. Cost: \$35.

How'd we do?

The Office of Human Resources has once again set up an easy-to-respond-to electronic survey that will assess the annual Staff Review and Development Plan in which employees recently participated. The survey is expected to point out the program's strengths and determine what steps might be taken to modify or improve the process for the future.

In an effort to reduce survey costs and to make it easier for participants to respond, an electronic format is being used. The assessment form is available on the Office of Human Resources' World Wide Web page at [URL www.ohr.psu.edu](http://www.ohr.psu.edu). From the OHR home page, click "Documents." Under the "Staff Review and Development Survey" heading click "Staff Review and Development Survey." The format allows the survey to be electronically returned and if accessed and responded to through the Web site, the response will be anonymous. Instructions for completing and returning the form are provided.

If some faculty and staff members are uncomfortable responding electronically, the survey may be printed and mailed to the Office of Human Resources, Box 6, Rider Building, University Park. Faculty and staff members who do not have access to the Web survey format, may obtain a copy of the survey through Human Resources representatives and directors of Business Services. Responses should be returned to OHR by the end of June.

You deserve your own copy

Are you receiving too many *Intercoms* or do you have to wait your turn to read the latest Penn State happenings? If you fall into one of these two scenarios, please contact your building's mailroom to have your office's distribution numbers changed.

If the distribution needs to be changed for the entire building, please ask the mailroom personnel to contact **Chris Koleno** of the *Intercom* by phone at (814) 865-7517 or e-mail at cfk3@psu.edu.

Construction Web site

With construction of the new Paterno Library addition to Pattee Library moving into high gear, it is now more important than ever to be aware of the day-to-day activities at the library.

To help you stay informed, the University Libraries have created the Paterno Library Web site at <http://www.libraries.psu.edu/pubinfo/construction/>. The site includes an overview of the project, including an artist's rendering of the completed building; a construction timetable indicating the schedule of work to be done through fall of 1999; and phase drawings showing which areas of the library will be under construction at different times throughout the project. The site is updated frequently. Also included are photos of the construction site, a list of frequently asked questions and "Ask MACC," which provides Web surfers the opportunity to e-mail questions and comments.

LIAS services expand

When working on a research project, you have ever wondered what particular library books you have checked out and if any of them are overdue? Now with the newest version of the Library Information Access System (LIAS), users can find out this and more through four new patron commands. Patrons can issue these commands from any LIAS terminal; up until now they have had to ask someone at a public service desk for this information. The new commands are:

■ **Patron summary (PS)** briefly summarizes circulation information for your user ID.

■ **Patron inquiry (PI)** provides itemized circulation information for your user ID.

■ **Patron overdue (PO)** provides itemized information about overdue items currently charged out on your user ID.

■ **Patron fee (PF)** provides itemized information for each item on which you have incurred a fee that is still outstanding.

For general information about these and all other patron commands, type: **help patron**. For security, when you are done using LIAS, you should press [ENTER] twice to clear your circulation inquiries.

New Web site

The Office of Human Resources' Work/Life Programs has a new Web site that provides information on a multitude of issues including child care, elder care and statewide community links for areas surrounding all Penn State locations.

The site, which will be continually updated, is located at <http://www.ohr.psu.edu/worklife/default.htm>. If there are any important Web sites for your community not listed at this site, e-mail the URL to caf333@psu.edu with a brief description.



Bird's eye view

Work has begun on the new Sami Tennis Facility, being built on the former site of the chicken coops on Bigler Road at University Park. This photo was taken from the diving platform of the outdoor pool, located next to the construction site.

Photo: Greg Grieco

Pennsylvania Transportation Institute earns \$1.2 million contract to work with PennDOT

The Pennsylvania Transportation Institute (PTI) on the University Park campus has won a four-year \$1.2 million contract to enter into a new partnership with the Pennsylvania Department of Transportation.

The agreement is a continuation of an existing multi-year, multi-million dollar partnership between PennDOT and the Mid-Atlantic Universities Transportation Center (MAUTC) at Penn State.

MAUTC is one of 14 centers in the nationwide effort initiated in 1987 by the U.S. Department of Transportation to address transportation-related issues and problems. Penn State serves as the lead university in the five-member MAUTC consortium, which also includes the University of Pennsylvania,

the University of Virginia, Virginia Polytechnic Institute and State University and West Virginia University.

According to James H. Miller, associate professor of business logistics, PTI research associate and MAUTC director, a key feature of the new partnership is that it will involve the current MAUTC universities as well as other colleges and universities in Pennsylvania, including Bucknell University, Lafayette College and Lincoln University.

"The main goal of this partnership is to give PennDOT access to the academic expertise and facilities available at Penn State and other Pennsylvania colleges and universities," Miller said. "These combined resources will help PennDOT as it addresses many of the pressing technical, economic and policy

issues that are an integral part of building and operating the Commonwealth's complex transportation system."

The original PennDOT/MAUTC partnership, initiated in 1993, has resulted in more than 39 research and technology transfer projects covering areas such as roadway design and safety, transportation planning, traffic safety and human factors analysis, environmental technical assistance, and transportation education and training. Miller said the new partnership will enable PennDOT and college- and university-affiliated faculty, staff and students to participate in an even broader range of research, education and technology transfer activities throughout Pennsylvania and the mid-Atlantic region.



End of fiscal year ordering reminder

University departments are reminded to use the following guidelines when placing end-of-year orders with the Microcomputer Order Center (MOC):

- University Park: GREQ orders must be received by the MOC by noon Friday, June 27, to ensure delivery and billing of in-stock items.
- Commonwealth locations — GREQ orders for in-stock items must be received by the MOC by end of business on Wednesday, June 25.
- Out-of-stock software and peripherals: average lead times are 2-4 weeks.
- Out-of-stock printers and systems: average lead times are 2-8 weeks.
- No GREQ can be billed in 96/97 and delivered after June 30. There are no exceptions.

■ If you want any backorders from your GREQ to remain in the queue for 97/98 you MUST type 'y' in the GREQ field "Authorize requisition to carry over to the new fiscal year." IBIS defaults this field to 'n'.

■ On July 1 all backorders not authorized to carry over to 97/98 will automatically be canceled by IBIS.

■ When calling for delivery information please have your IBIS document number ready. Also, please check to make sure the document has been processed by your entire approval path. The MOC does not see your order until it has reached our electronic desk.

Updated Web page

For the very latest in product and pricing information, visit the MOC Web page at <http://moc.cac.psu.edu>. The page has recently been updated to include a more comprehensive product information and additional price lists.

Information service has answers for seniors

A new service from the Penn State Gerontology Center in the College of Health and Human Development offers information of special interest to Central Pennsylvania's senior citizens and others interested in issues related to aging.

The new telephone service provides information on practical topics as diverse as reverse mortgages and sleep disorders among the elderly and can put seniors in touch with local support groups. The hotline is operated by volunteers in the center's Senior Volunteer Outreach Program who answer calls and provide referrals from 10 a.m. to 2 p.m. Tuesdays and Thursdays at (814) 863-4517. At other times, callers can leave a voice mail message and volunteers will gather information and respond.

The outreach center volunteers have developed a database on aging information to support the hotline. The data-

base includes both local and national information, including a directory of toll-free numbers for more than 190 health topics and 100 health-related support groups. The hotline also provides information about Penn State events and activities for senior citizens. All calls are confidential.

The program recently coordinated the publication of *A Senior Citizen's Guide to Campus Life*, designed to promote accessibility to campus life for seniors. The guide contains information about parking, transportation and special assistance on the University Park campus, as well as education, cultural and recreational activities. To receive a copy of the guide, call the hotline number.

Anyone interested in volunteering to answer the hotline on weekdays can call Susan Keller, assistant director for community outreach, at (814) 863-7903.

ARTS & ENTERTAINMENT

AT PENN STATE



On display

Susquehanna, Pennsylvania, a lithograph by W.W. Denslow, is part of the exhibit "Our Town: A Selection of Town Views from the Pennsylvania Prints," which will be on display at the Palmer Museum of Art on the University Park campus June 3 through Sept. 28.

Odyssey Through Literature

The roles of women in literature of different cultures will be the focus of this summer's series programs from the Odyssey Through Literature archives.

Host S. Leonard Rubinstein and his guests will discuss aspects of women's lives from medieval to modern times, from Western Europe to Africa and the Far East. Shows about medieval literature range from Iceland to France and Spain, with such guest as Carol Clover of the University of California at Berkeley and Ann Kettle of the University of St. Andrews in Scotland. Shows about Asian women include feminist scholar Daiyan Yue of the University of Beijing and Vietnamese poet **Nha Tang Moss**. The season is rounded out with a discussion of modern Mexican playwright **Sabina Berman** and the prose of East German women before the opening of the Wall.

The program "Mammywater," recorded in 1984, will begin the season on June 1. **Flora Nwapa**, the first woman writer of Nigeria, explains that she uses her writing to support Nigerian women who are breaking free of tradition.

Odyssey Through Literature is produced as a continuing education service of the Department of Comparative Literature. It airs Sundays at 6:30 p.m. on WPSU, 91.5 FM from University Park and 106.7 FM in Altoona, and on WPSB, 90.1 in north-

ern Pennsylvania. A complete listing of the Odyssey archive, as well as the current schedule, can be found on the World Wide Web at <http://mickel.la.psu.edu/complit/odyssey/odyssey.htm>.

MetaStages

MetaStages, an outreach program of the College of Arts and Architecture's School of Theatre Arts, announces summer drama camps for children to be held at the Pavilion Theatre in late July and August. Young people receive training from professionals in acting, voice, movement, mime and production workshops as they rehearse and perform plays from various cultures. Camps culminate with an afternoon of performances.

The one-week camps meet from 10 a.m. to 4 p.m. daily, and are grouped by age from 9 to 18 years.

Camp dates are: July 28-Aug. 1; Aug. 4-8; Aug. 11-15 and Aug. 18-22.

Class size is small and strictly limited. For further information about the drama camps, or programs during the year for kindergarten through grade 12, contact **Joann Leonard**, MetaStages director, at (814) 867-8390.

Palmer exhibits

"Our Town: A Selection of Town Views from the Pennsylvania Prints" opens Tuesday, June 3, at the Palmer Museum of Art on the University Park campus and continues through Sept. 28. The exhibition

includes images from a collection of nearly 330 prints of Pennsylvania's places, prominent citizens and historic events. The Palmer Museum acquired the collection in 1986 from **John O'Connor** and **Ralph Yeager**, the owners of the Tavern Restaurant in State College. The engravings, aquatints, woodcuts and lithographs that make up the collection span nearly 150 years and depict all geographic regions of the state.

A second exhibition of Pennsylvania prints, "Making History: Historical Narratives in the Pennsylvania Prints," also will be on view at the Palmer Museum of Art from Tuesday, June 17, to Aug. 31. This exhibition explores the significant use of historical narratives in Pennsylvania prints and the important role historical events played in bolstering civic pride.

Center for the Performing Arts

The Center for the Performing Arts has announced its 1997-98 season, which includes 37 shows in 10 subscription series, with a wide range of offerings for any taste. To receive a free brochure, phone the Arts Ticket Center at (814) 863-0255. The newly announced season follows:

■ The season opens with "The Tale of Teeka" on Sept. 18. Presented by the Montreal-based company Les deux mondes, it is the simple story of a boy and his pet goose.

■ Saturday, Sept. 20, the ensemble Pomerium reviews the golden age of a capella singing.

■ Ballet Folklorico de Mexico, a company of 65 dancers and musicians, performs Sept. 23 at 8 p.m.

■ "Les Enfants Terribles" will be held at 8 p.m. Thursday, Sept. 25.

■ Jose Limon Dance Company performs at 8 p.m. Saturday, Oct. 4.

■ "An Ire-Ish Tale," Wood and Strings Puppet Theatre, 1 and 3 p.m., Sunday, Oct. 5.

■ "Carousel," 8 p.m. Thursday and Friday, Oct. 9 and 10.

■ The Stuttgart Philharmonic, one of Germany's most celebrated orchestras, performs Thursday, Oct. 16.

■ Moscow Conservatory Ensemble, 8 p.m. Saturday, Oct. 25.

■ "Sister Annies's Country Western Nunsense Jamboree" starring **Vicki Lawrence**, 8 p.m. Wednesday and Thursday, Oct. 29 and 30.

■ Paquito D'Rivera and the United Nations Orchestra, 8 p.m. Saturday, Nov. 1.

■ The Nettle Brothers, 8 p.m. Tuesday, Nov. 4.

■ Sydney Dance Company, 8 p.m. Thursday, Nov. 13.

■ Ondekoza, 8 p.m. Saturday, Nov. 15.

■ The Jazz Messengers, 8 p.m. Wednesday, Nov. 19.

■ "The Nutcracker," The Louisville Ballet, 8 p.m. Friday and 1 p.m. Saturday, Dec. 5 and 6.

■ "West Side Story," 8 p.m. Thurs-



BRYCE JORDAN CENTER

Trade show coming

The Bryce Jordan Center will be the site of "Preview '98," the second annual regional trade show, June 12-14. Tickets are \$3.50 for adults, with children 12 and under admitted free.

The show will feature more than 100 businesses from a wide variety of industries and will include demonstrations and exhibits of emerging technology and cutting-edge services.

For booth information, call (814) 863-1570.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>.

day and Friday, Jan. 15 and 16.

■ Hesperus, 8 p.m. Saturday, Jan. 17.

■ Harolyn Blackwell, soprano, 8 p.m. Saturday, Jan. 24.

■ "Sleeping Beauty," St. Petersburg Ice Ballet, 8 p.m. Sunday, Feb. 1.

■ "Peet Gynt," National Theatre of the Deaf, 8 p.m. Friday, Feb. 6.

■ Mingus Big Band, 8 p.m. Saturday, Feb. 7.

■ Street Sounds, 8 p.m. Saturday, Feb. 14.

■ "Damn Yankees," 8 p.m. Thursday and Friday, Feb. 19 and 20.

■ Metropolitan Opera National Council Winners, 8 p.m. Saturday, Feb. 21.

■ River City Brass Band, 8 p.m. Friday, Feb. 27.

■ Shakespeare's "Julius Caesar," 8 p.m. Saturday, Feb. 28.

■ "Aristophanes' "The Birds," 8 p.m. Monday, March 2.

■ American Indian Dance Theatre, 8 p.m. Thursday, March 5.

■ Cirque Ingeux, 8 p.m. Thursday, March 19.

■ Russian National Orchestra, 8 p.m. Saturday, March 21.

■ Lincoln Center Jazz Orchestra featuring Wynton Marsalis, 8 p.m. Wednesday, March 25.

■ American Repertory Ballet, 8 p.m. Friday, March 27.

■ "Where the Wild Things Are," American Repertory Ballet, 8 p.m. Saturday, March 28.

■ Hampton String Quartet, 8 p.m. Saturday, April 4.

■ "Daughter of the Regiment," New York City Opera National Company, 8 p.m. Monday, April 13.

■ Riders in the Sky, 1 and 3 p.m. Sunday, April 19; and

■ "The Goodbye Girl," 8 p.m. Thursday and Friday, April 30 and May 1.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Sunday, June 1

Odyssey Through Literature, 6:30 p.m., WPSU, 91.5 FM.

Wednesday, June 4

Pennsylvania Centre Stage, "You're a Good Man, Charlie Brown," 7:30 p.m., Pavilion Theatre, through June 21. For tickets, phone (814) 863-0255.

Wednesday, June 11

Summer Session eight-week classes begin.

Pennsylvania Centre Stage, "The Mousetrap," 8 p.m.

The Playhouse, through June 28. For tickets, phone (814) 863-0255.

Thursday, June 12

Music at Noon: Fisher Plaza, Tim and Elise Duo contemporary music.

Ice Skating "Diversions," 8 to 11 p.m., ice rink, \$1 with coupon, \$2.25 without, includes skates.

SEMINARS

Friday, May 30

Raoul Bino on "Cell Cycle Events During Seed Germination and its Consequences for Seedling Quality," 11 a.m., 105 Wartik.

CONFERENCES

Friday, May 30

American Regions Math League, residence halls and The Nittany Lion Inn, through May 31.

Monday, June 2

■ The 18th World Conference of the International Council for Open and Distance Education, through June 6.

Sunday, June 8

Specialty Mushroom Workshop, The Nittany Lion Inn, through June 9.

Monday, June 9

Mushroom Short Course, The Nittany Lion Inn, through June 11.

"Conference on Strengthening Postsecondary Education's Contribution to Economic Development," through June 11.

Wednesday, June 11

PA Rural Health/AHEC, The Nittany Lion Inn, through June 13.

EXHIBITS

HUB Art Alley Cases

Ceramic exhibit by Matthew Van Hom.

HUB Art Alley Panels

■ Asia-Southwest China exhibit featuring watercolor scrolls, through June 22.

HUB Browning Gallery

"A Love of Nature" by Marlee Erwin, through June 8.

HUB Hall Cases

Exhibition by the craft center summer instructors, through June 22.

Kern Panels

Photos by the State College Slide Club, through June 22.

Kern Tall Cases

Sculpture by Howard Lawrence, through June 22.

Palmer Museum of Art

"Recent Gifts and Acquisitions: Works on Paper," through June 8.

"Exotic Illusions: Art, Romance and the Marketplace," through June 15.

"Our Town: A Selection of Town Views from the Pennsylvania Trips," June 3 through September 28.

Zoller Gallery

Crafts National 31, June 1 through July 20.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at <http://cac.psu.edu/calendar/>



Annual ritual

Students Matt Cameron, left, and Audie Prey recently joined Kathy Shumac, garden manager, to plant new flowers for the test beds and vegetable gardens on the University Park campus. Many of the seeds are tested here first before being introduced to the public by the major seed producers.

Photo: Greg Grieco

University's academic, administrative computer systems now under one roof

The University broke with tradition last weekend.

While most University employees enjoyed a long Memorial Day weekend, some at University Park were working nearly around the clock to consolidate the academic and administrative computing centers under one roof with a single management team and a single operations staff. The two centers have traditionally been apart, with the academic unit housed in the Computer Building and the administrative unit in the basement of Shields Building. But at noon on Friday, May 23, all databases running on the administrative mainframe were shut down and backed up. Early on Saturday, May 24, the mainframe computer components were unplugged, packed up and moved from Shields Building to the Computer Building. The administrative computing system has been housed in Shields Building since it was moved from Old Main roughly 30 years ago.

This consolidation, will enable both the Center for Academic Computing (CAC) and the Office of

Administrative Systems (OAS) to automate many processes that were previously done manually. It also will produce an annual savings of \$380,000, which is being applied to the 3 percent goal for University-wide budget reduction.

The consolidation also provides other benefits:

■ Because both CAC and OAS prepared for consolidation by purchasing smaller, faster, higher-capacity computer components, the OAS system is now housed in a 300-square-foot space, instead of the 3,000-square-foot room it occupied in Shields Building. Once the newly available space is refurbished, OAS staff now housed in University Support Building II will join their co-workers in Shields Building.

■ Data storage has increased by 60 percent and computing power has increased by 15 percent.

■ Communication speeds to the administrative computers are being doubled, and within the next 18 months will be tripled.

Hershey earns continued program accreditation

The animal research program at The Hershey Medical Center was awarded continued full accreditation by the Association for Assessment and Accreditation of Laboratory Care International, in recognition of continuing responsible and humane treatment of laboratory animals. The medical center has participated in the voluntary accreditation program since December 1968.

The association is a private, nonprofit organization that promotes the humane treatment of animals in science and has accredited more than 600 institutions around the world. To earn accreditation, a research program undergoes a rigorous evaluation and must demonstrate continuously that it goes beyond the minimum requirements for the care and use of laboratory animals.



Baldridge Award for Education

Next week the U.S. House and Senate will conduct hearings on the appropriation of funds for the 1998 Malcolm Baldridge National Quality Award Program. They will consider a request to expand the Baldridge government/private industry partnership to education and health care. These hearings will be critical to the future of the Baldridge program and to the appropriated funds for the government's part of an expanded public/private partnership.

Quality Cup Award

Belmont University in Nashville, Tenn., is the education winner of the 1997 Rochester Institute of Technology/USA Today Quality Cup Competition. The competition recognizes teams who make significant contributions to the improvement of quality in their organizations.

In most universities, the segmented structure of university administration requires students to obtain a multitude of validations and signatures and make many trips across campus to complete even the most simple transaction. At Belmont, a team of individuals who deal directly with students in the areas of admissions, student affairs, financial aid and student accounts came up with a streamlined concept: a single storefront where a student could go to accomplish a variety of administrative tasks that previously had to be completed by bouncing back and forth between different offices across campus. That concept is now known as Belmont Central, a "one-stop shopping" office for business that students transact with the school.

Belmont's entry was one of nearly 300 received for this year's judging. Second place in the education division went to The Ohio State University.

For more information about Continuous Quality Improvement, contact Louise Sandmeyer, executive director of the Center for Quality and Planning, at (814) 863-8721, ls@psu.edu or see the center's Web site at <http://www.psu.edu/president/cqi>.

liberal arts departments merge

Gerhard F. Strasser, professor of German and comparative literature, has been appointed head of the newly established Department of Germanic and Slavic Languages. The department brings together faculty formerly in the departments of German and Slavic and East European languages.

The departmental restructuring is a result of the College of the Liberal Arts' five-year strategic planning process. The new unit was developed in response to predicted enrollment trends in foreign language study and to provide more cost-effective administrative and technology support for faculty and students in the unit.

"A basic principle of this restructuring is to improve the quality of the activities performed by the units involved and to allow them to benefit from efficiencies of scale in such administrative functions as course scheduling, job searches, curriculum planning and financial operations," said Susan Welch, dean of the college. "The larger faculty base of the combined units will permit all of the normal activities of the departments to be carried out more effectively and with some reduction of administrative costs."

None of the existing programs of the departments will be changed as a result of this merger. The existing graduate programs of the former Department of German will

continue, as will the joint M.A. program in Russian and comparative literature. No faculty or staff will be discharged as a result of this reorganization and all faculty tenure processes currently in place will continue. The new department will be located in Burrows Building on the University Park campus, which will become largely devoted to language and literature offices. The merger is effective July 1, following its recent approval by the University's Faculty Senate and the Board of Trustees.

Strasser, a member of the German and comparative literature departments since 1979, specializes in European literature of the Renaissance and Baroque periods, on the history of ideas in the 16th and 17th centuries, and in language pedagogy. He is the author of *Lingua Universalis: Kryptologie und Theorie der Universalien* (1986) and *17. Jahrhundert* (1988) and co-editor of *Johann Joachim Becher* (1635-1682) (1993).

In addition to contributions to books and scholarly articles, he has co-authored and co-edited numerous language textbooks and book reviews.

Before coming to Penn State, Strasser was on the faculty of Northwestern University. He received his doctorate in comparative literature from Brown University in 1974 and his undergraduate and master's degrees from Ludwig-Maximilians-Universität, Munich, Germany.

Applications sought for department head

The College of Agricultural Sciences is conducting a national search for the position of professor and head of the Department of Agricultural and Biological Engineering. The professor and head serves as departmental administrative officer and program leader and reports jointly to the dean of the College of Agricultural Sciences and the dean of the College of Engineering.

Duties include: leadership for the department in all three land-grant missions; administrative responsibility for personnel, financial matters and physical facilities; and leadership

and coordination of relations with producers, business, industry, government and the public. Candidates must possess a Ph.D. in agricultural and biological engineering or a closely related engineering discipline and have exceptional leadership and administrative abilities. Eligibility for tenured rank of full professor is required.

Additional information about the department can be found by visiting the Web at <http://engr.psu.edu/casdc.psu.edu/>.

Applicants should submit a statement outlining their qualifications and a complete resume documenting

teaching, research, extension, administrative and leadership experience. The name, address, phone, fax number and e-mail address for each of five references also should be submitted. Nominations of suitable candidates are invited. Send information to: Dennis J. Murphy, chair, Advisory Search Committee, The Pennsylvania State University, 221F Agricultural Engineering Building, University Park, Pa. 16802; phone: (814) 865-7157.

Applications will be accepted until Aug. 22, or until a suitable applicant has been identified.

Keystone 21 partnership seeks proposals

Keystone 21, a partnership between Cheyney University, Penn State's College of Agricultural Sciences and Commonwealth Educational System, and the Rodale Institute, is seeking project proposals and has established a public e-mail discussion list for people interested in the future of Pennsylvania's food system.

Keystone 21, one of 14 W.K. Kellogg Foundation projects across the nation that collectively form the Food Systems Professions Education Initiative, aims to meet challenges created by the rapid changes occurring in the food system.

Project organizers plan to fund proposals to develop and implement educational programs to prepare food system professionals for the 21st century. The group is looking for creative initiatives that emphasize collaboration. It is particularly interested in proposals that involve collaboration with one or more of the Keystone 21 partners and other organizations or institutions with an interest in food system issues.

Two types of competitive grants are available: a 12-month, nonrenewable mini-initiatives grant of \$7,500; and collaborative agreements, which have a maximum funding level of \$30,000 per year, not to exceed \$75,000 for three

years. The deadline for mini-initiative proposals is June 15, and the deadline for collaborative agreements is Aug. 15. Funding for mini-initiatives will begin on April 1. Funding for collaborative agreements will begin on Nov. 1.

For more information about the grants, write to Keystone 21 — The Pennsylvania Food System Professions Education Project, 130 Agricultural Administration Building, University Park, Pa. 16802; call (814) 865-0114; fax (814) 863-7277; or send e-mail to PAFSPE@psu.edu.

World Wide Web users can learn more from the project's Internet site: <http://www.cas.psu.edu/docs/CASPROF/keystone21/keystone21.htm>.

Participants in the new Keystone 21 e-mail list can informally discuss proposal ideas, food systems issues, collaboration opportunities and other concerns related to the project.

To subscribe to the listserv, send an e-mail message to keystone21@lists.cas.psu.edu. In the subject line of the address, type "Subscribe." Leave the body of the message blank. Within a few hours, you should receive a message confirming your subscription to the Keystone 21 discussion list.

■ Road Scholars Tour

On Monday, May 12, roughly 70 recently hired faculty members boarded a pair of buses with President **Graham B. Spanier** for a two-day tour of western Pennsylvania.

Stops were made to the Fayette, Beaver and Altoona campuses, as well as to Singing Brook Farm in Imbler, owned by Board of Trustee member **Obie Snyder**; Fallingwater, the national landmark designed by Frank Lloyd Wright; H.J. Heinz Food Co. in Pittsburgh; and Creekside Mushrooms Ltd. in Worthington. The group also enjoyed lunch with alumni and friends of the University on a riverboat tour of Pittsburgh.

The goal of the trip was to see first-hand the impact the University has statewide. Tour-goers received the added benefit of getting to know one another better as well.

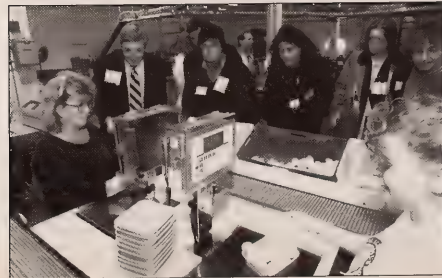
To see more photos from the trip, visit the Web at <http://www.psu.edu/ur/INTERCOM/home.html>.



At the end of the visit to Creekside Mushrooms, the Road Scholars were given T-shirts — provided they donned them for a group picture in front of the tour bus. Roger Claypoole, general partner of this underground farm, is a Penn State alumus.



There are roughly 400 registered Holsteins at Board of Trustee member **Obie Snider's** Singing Brook Farm. Snider uses the technology of super ovulation and in vitro fertilization at his farm, which is dedicated to production of Holstein dairy cattle for selective breeding. He benefited from research conducted by John Almquist, professor emeritus of dairy physiology, who was a leader in the technology. One of the Sniders' 10 grandchildren, right, holds a young calf while a faculty member pets it. All of the Snider grandchildren have experience working on the farm.



President **Graham B. Spanier**, second from left, and other Road Scholars watch as two Creekside Mushroom workers weigh and arrange each tray of fresh-picked mushrooms.



Faculty took advantage of a lull in the busy schedule and got to know one another better on the deck of the *River Belle* during a riverboat tour of Pittsburgh. Unlike the first day of the tour, skies were clear and the sun was shining for the cruise.

*Photos by
Greg Grieco*



Theresa A. Balog, **Elouise Ross Eberly** professor of nursing and assistant professor of nursing/coordinator of nursing programs at Fayette Campus, explains the uses of a life-sized dummy and other items in the nursing clinical lab.



Everyone had to don hair nets, hats and protective glasses for the tour through the **H.J. Heinz Food Co.** manufacturing plant. Tour-goers had the opportunity to see chicken noodle soup and two kinds of baby food cooked, packaged and labeled.

Appointments

Shenango appoints head librarian

The Penn State Shenango campus of the Commonwealth College has hired **Becky Albitz** as its new head librarian.

A graduate of State College Area High School, Albitz received a bachelor of arts degree in film and English from the University of Rochester in Rochester, N.Y., a master's degree in film from Penn State and a master's degree in library science from the University of Pittsburgh.

Before coming to Penn State Shenango, Albitz was the media services librarian at the University of Iowa and, most recently, the performing arts and media librarian at New York University in New York City.



BECKY ALBITZ

Interim dean becomes associate vice president for outreach

Theodore R. Alter, interim dean in the College of Agricultural Sciences and professor of agricultural economics, has been named associate vice president for outreach, director of cooperative extension and associate dean in the college, effective July 1.

After earned a B.A. degree in economics with distinction from the University of Rochester. He received both his M.S. and Ph.D. in resource economics and policy from Michigan State University, where he also was a National Defense Education Act fellow. He joined the Penn State faculty as an assistant professor of agricultural economics in 1976. From 1989 to 1994, he served as regional director of the Southeast Region for Penn State Cooperative Extension, providing administrative and program leadership for the nine-county region. He was appointed head of the department of agricultural economics and rural sociology in March 1994 and interim dean in July 1996. Alter received the American Agricultural Economics Association distinguished extension program award in 1985.

Alter's new position was created as part of an overall effort to enhance cooperative extension and



THEODORE R. ALTER

engage the entire University in a broadened outreach effort. Cooperative extension, with offices in each of Pennsylvania's 67 counties, transfers research-based information to Pennsylvania's citizens through non-formal educational programs designed to meet locally identified needs. Alter will have responsibility for cooperative extension's program planning; budget, facilities and human resource management; as well as government, industry and constituent relations. He will report to both the dean of the College of Agricultural Sciences and to the vice president for outreach and cooperative extension, **James Ryan**. Robert Steele is the incoming dean for the college.

Wilkes-Barre welcomes new CEO

Mary E. Hines, dean of instruction and curriculum development at Dundalk Community College in Maryland, has been named campus executive officer of Penn State Wilkes-Barre, effective July 1.

Dean of instruction and curriculum development at Dundalk since 1994, Hines has had responsibility for the college credit and non-credit instructional programs and academic services including policy development and implementation; faculty recruitment, development, and evaluation; facilities, budgeting and schedules; strategic planning and outcomes assessment; and accreditation.

She is a member of the president's staff, the Faculty Council and other policy committees for the college. Chair of the instructional technology task force, she manages the college distance learning initiatives, chairs the Tri-College system Task Force on Academic Programs, represents the instructional divisions on the Tri-College system committees and is a member of many state and county educational committees.

From 1984 to 1994 Hines was associate dean of instruction at Catonsville Community College, where she had college-wide administrative responsibility for faculty, staff, budget, facilities, advising, planning and evaluating all aspects of liberal education and learning services, and served as division chair of the humanities division of the college from 1980 to 1984. She also held the rank of professor of philosophy, serving as department chair from 1979 to 1984, and was an adjunct professor of philosophy at a number of Maryland colleges and universities.

Among her recent honors, she received an Outstanding Academic Leadership Award in 1996, the Adjunct Faculty Teaching Award from the College of Notre Dame of Maryland in 1995 and the Yokohama



MARY E. HINES

Academy Award for Partnership in 1994. She is a frequent speaker and has published on issues in higher education, ethics and the role of community colleges.

Hines graduated with a B.A. in philosophy from St. Francis College, N.Y., and received her master's degree and doctorate in philosophy from Catholic University of America in Washington, D.C.

Alumni Association executive director to start in position June 1

Diane K. Ryan has been named executive director of the Penn State Alumni Association, effective June 1. She will report to the vice president for development and alumni relations, and work closely with the association's president, executive board and Alumni Council in administering the association's services and programs.

As executive director, Ryan will provide leadership for the Alumni Association, which has a membership of 140,000 and is the largest dues-paying organization of its kind in the nation. She will direct the alumni services and programs at Penn State, and lead a staff of 47 people.

Ryan has led the external relations team of the Alumni Association for the past seven years. As assistant executive director for special programs from 1990 to 1995, she initiated the association's reorganization of its former "club" system into a comprehensive network of chapters, college and campus societies and alumni interest groups. From 1985 to 1996, she held the position of associate director of alumni programs, and for the past year also served as interim director of alumni programs.

Ryan's career at Penn State, however, reaches back to 1980 when she was appointed assistant to the dean of student affairs at Penn State Wilkes-Barre. In this position, she was responsible for overseeing and developing student activities, clubs, organizations and cultural programs. From 1981-90, she held the position of director for the Center for Individual Development and coordinator of advising and counseling at Penn State Wilkes-Barre. She administered the Division of Undergraduate Studies academic enrollment program, and designed and implemented the first advising-counseling center in the Commonwealth Educational System, which provided integrated services for day and evening students, as well as alumni.

Ryan holds a B.S. in elementary education from Shippensburg University, an M.Ed. in counselor education from West Chester University and a secondary counselor certification from Penn State.



DIANE K. RYAN

BookShelf

Just published by Oxford University Press is a monograph, *Physical Adsorption: Forces and Phenomena*, co-authored by **L. W. Bruch** of the University of Wisconsin, **Milton W. Cole** of Penn State's physics department, and **Eugene Zarembka** of Queen's University in Ontario. The theme of this book lies in the interdisciplinary field of chemical physics. Its principal topics are the force between atoms and surfaces and the nature of a monolayer film. Interest in this subject is largely due to the fact that such films are

realizations of a two-dimensional world, which theoretical physicists and chemists contemplate. This world is even richer than our conventional three-dimensional world, according to the authors, because there is a broader range of phases and transitions between them than is found in three dimensions.

Gary W. Gallagher, professor of American history, is the editor of *The Wilderness Campaign*, recently published by the University of North Car-

olina Press. *The Wilderness Campaign* describes the bloody, largely indecisive Civil War battle fought between generals Robert E. Lee and Ulysses S. Grant on May 5-6, 1864 in the vast scrub forest south of the Rapidan and Rappahannock Rivers in Virginia.

The contributors bring modern scholarship and fresh insight to bear on the issues and leaders of the Wilderness Campaign. The eight essays explore the campaign's background. Other essays evaluate the per-

formances of individual leaders such as Union cavalry Gen. Philip Sheridan and Confederate corps commanders Richard S. Ewell and A.P. Hill. Two of the most celebrated incidents — the "Lee to the Rear" episode and Gen. James Longstreet's flanking attack — are reconstructed in detail.

Callaghan's cave is also the author of *Stephen Dodson Ramsaur: Lee's Gallant General and Fighting for the Confederacy: The Personal Recollections of General Edward Porter Alexander*.

Penn Staters

Collins O. Airhihenbwa, associate professor and head of the Department of Health Education in the College of Health and Human Development, has been selected as the 1998 Scholar of the American Association for Health Education. This is the highest honor given by the association and recognizes an individual whose years of scholarly contributions have significantly influenced the profession of health education. Airhihenbwa is the first Penn State professor to be honored with the award established in 1977.

David L. Allara, professor of materials science and chemistry, has been named a Fellow of the American Association for the Advancement of Science (AAAS). He was among 283 scientists to receive the distinction this year. The association selects as Fellows members whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished. Founded in 1848, the AAAS is the world's largest federation of scientists and has more than 144,000 members. The association publishes the journal *Science*.

Allara is a materials chemist whose research includes surface chemistry and analytical spectroscopy. He is being honored for his innovative studies of the properties and preparation of novel solid interfaces that can be used in electrochemical, electronic and optical devices.

Sohail Anwar, assistant professor of engineering at Penn State Altoona, will serve as an invited professor of electrical engineering at Université d'Artois Institut Universitaire Technologie (IUT), Bethune, France. Sohail will participate in lecture and lab activities in the areas of power electronics and industrial control systems.

Penn State will be featured in the 1997-98 *Hon Roll for Character-Building Colleges* guidebook published by the John Templeton Foundation for its strong commitment to character-building programs offered by Student Affairs, under the direction of **William W. Asbury**. More than 65,000 copies of the guidebook will be distributed to public libraries, high school guidance counselors and interested parents and students across the country.

S. Ashok, professor of engineering science and mechanics, presented a paper at the International Conference on Ion Beam Modification of Materials in Albuquerque, N.M. The paper, "Defect Generation in Hydrogen Plasma Exposed Silicon Under Thermal Anneal," was written by Ashok, A. Tannable, a visiting scientist from NEC Corp. in Japan, D. Theodore, a member of the technical staff at Motorola Semiconductors, and D. Z. Chi, a Penn State graduate student in engineering science and mechanics.

Ashok also presented a paper titled "Investigation of Indium Tin Oxide-Silicon Interfaces: Ion Damage, Hydrogen Passivation, and Low Temperature Anneal" at the Second International Symposium on Control of Semiconductor Interfaces in Kasuizawa, Japan. Engineering graduate student **K. Kuwano**, now an alumnus of Penn State, was a contributing author to the paper.

Judith Bond, professor and chair of the Department of Biochemistry and Molecular Biology at The Milton S. Eshelby Medical Center, is one of nine people recently selected to serve on the Advisory Council of the National Institute of Diabetes and Digestive and Kidney Diseases — a component of the National Institutes of Health. The National Institute of Dia-

betes and Digestive and Kidney Diseases is a major federal provider of U.S. biomedical research.

David Dunbar, retired extension agent in Lehigh County, received the Pennsylvania Dairyman's Association Extension Award.

E. Emory Ensore, professor of industrial engineering, was recently appointed to a two-year term as vice president of academic affairs for the Institute of Industrial Engineers (IIE). Elected nationally by members of the IIE, Ensore will serve as a voting member of the institute's Professional Enhancement Board. He also will serve as liaison among the many committees and councils of the IIE. Ensore is a member of the IIE's Education Policy Board and serves as one of three industrial engineers on the Engineering Accreditation Commission.

Nina V. Fedoroff, professor of biology, director of the Life Sciences Consortium, director of the Penn State Biotechnology Institute and the Verne M. Williams Chair in Life Sciences, received the 1997 John P. McGovern Science and Society Medal and delivered the McGovern keynote address at the annual meeting of Sigma Xi, the honorary scientific research society.

Murat Gunaydin, professor of physics, presented an invited talk titled "Seven Sphere and the Exceptional Nonlinear Superconformal Algebras" at the 30th International Symposium Ahrensburg on the Theory of Elementary Particles in Buckow, Germany.

Joyce A. Haney, manager, Purchasing Services, has earned the status of certified purchasing manager (C.P.M.) from the National Association of Purchasing Management. Individuals earning this designation demonstrate their professional capabilities by passing four rigorous examinations, pursuing formal and continuing education and working and contributing to the profession.

S.I. Hayek, distinguished professor of engineering science and mechanics, has been named the general chairman of the 133rd National Conference of the Acoustical Society of America to be held in June at Penn State. Ninety different sessions are planned for the conference, which will include more than 800 paper presentations.

James Kerlin, deputy senior director of the Center for Academic Computing, served as a panel chair for the National Science Foundation Undergraduate Education Instrumentation and Laboratory Improvement Program Review Board.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and Materials Research Laboratory, gave an invited talk on "Enhanced Reaction Kinetics under Microwave-Hydrothermal Conditions" at the Second International Conference on Solvothermal Reactions in Takamatsu, Japan. While in Japan, he gave three invited talks on "Morphology Control of Calcium Carbonate and Phosphate" and "Second Generation Sol-Gel Processing" at Shiraishi Calcite Co. in Osaka and on "Novel Microwave-Hydrothermal Processing of Ceramic and Metal Powders" at Kochi University, Kochi.

Theodor Krauthammer, professor of civil engineering, and **Paul J. Tikalsky**, associate professor of civil engineering, were named Fellows of the

American Concrete Institute for "outstanding contributions to the production or use of concrete materials, products and structures in the areas of education, research development, design construction or management." The rank, now held by more than 560 members, was established by the institute in 1973.

William Mahon III, director of the Office of Public Information, has received the Don Hake Award from the College and University Public Relations Association of Pennsylvania for his long-term service and outstanding contributions to the organization and the field of public relations.

Richard Nichols, professor of theatre arts, has been selected as one of 20 to participate in the 1997 Korean Culture and Society Institute sponsored by the East-West Center at the University of Hawaii and The Korean Foundation. Participants will spend two weeks at the center studying with Korean specialists, followed by two weeks of travel within Korea. The institute prepares faculty who are not specialists in Korean studies to better present Korea to students in multicultural courses.

Kyle Peck, associate professor of instructional systems in the College of Education, has been appointed manager of the Professional Development Project for Link-to-Learn. Link-to-Learn is Pennsylvania Gov. Tom Ridge's three-year, \$121 million initiative to help schools acquire and upgrade computers; provide technology training for teachers; and build a Pennsylvania Education Network (PEN), a system of community-based learning networks that will connect classrooms, school districts and communities to each other and the world.

Karl Stoeckel, professor emeritus of exercise science, was recently honored by the Phi Eta Sigma National Honor Society at its national convention for his long-standing and distinguished service to the organization. Since 1977, Stoeckel served as adviser to the Penn State chapter. In that time, more than 6,000 students have been initiated and a \$60,000 endowed scholarship fund was established.

Bernhard R. Tittmann, Schell professor of engineering science and mechanics, presented an invited paper at the International IEEE Ultrasonic Symposium titled "Elastic Properties of Ceramic Thin Structures." At the symposium, he also served as the United States chair during a conference between U.S. and Japanese representatives called "Ultrasonics 1998."

David B. Van Dommelen, professor emeritus of art education and fiber arts, is having a one-man exhibition of wall hangings at the Gvat Chaim Kibbutz in Israel. While this is his first exhibition in Israel, he has shown his work in Iceland, Colombia, and at other international galleries.

Timothy Weyandt, director of occupational medicine at University Health Services, is among 35 physicians nationwide selected for the 1997 Class of Fellows by the American College of Occupational and Environmental Medicine, an international organization of more than 7,000 physicians who promote the health and safety of people in the workplace and environment through preventive medicine, clinical practice, research and education.

Awards

Two named honorary alumni

The Alumni Council of the Penn State Alumni Association voted to name two outstanding contributors to the University — **Laurie M. Gunter** and **James I. Tarmen** — as honorary alumni.

Gunter, professor emeritus of nursing and human development and former head of the Department of Nursing, retired from Penn State in 1987 after 16 years of service.

As head of the department from 1971 to 1975, she oversaw a number of major changes to nursing at Penn State, including the move from Allegheny Hospital in Pittsburgh to University Park and The Hershey Medical Center; an enrollment increase from approximately 100 to 800 students; substantial changes to the undergraduate curriculum; the establishment of a graduate degree program; and an extended degree program for registered nurses, the University's first.

She also served as interim department head from 1984 to 1985 and was professor-in-charge of the graduate program for many years.

A graduate of Meharry Medical College School of Nursing, the Tennessee Agricultural and Industrial University, with a B.S. in home economics, and Fisk University with a master's degree in education, she was one of the first black women to receive a Ph.D. in human development from the University of Chicago, in 1959.



LAURIE M. GUNTER



JAMES I. TARMEN

Much of her research has focused on nursing care for the elderly.

Tarmen, athletic director emeritus, is known to Penn State fans nationwide. He retired in 1993 after 35 years of service, including 11 as director of athletics. He is credited for playing a major role in merging Penn State athletic programs into the Big Ten Conference and his colleagues credit him with being one of the University's most creative and committed executives. He also has been selected for induction into the National Association of Collegiate Directors of Athletics Hall of Fame.

A 1952 graduate of Gettysburg College and a native of York, he was on staff of the *Harrisburg Patriot News* for a year and was assistant public information director and sports information director at Princeton University before joining Penn State in 1958.

Tarmen was named to the College Sports Information Directors Hall of Fame in 1970. He has been a member of the National Football Foundation and Football Hall of Fame Honors Court, and the National Collegiate Athletic Association Post Season Bowl and Special Events Committee, to name a few.

In 1990, Tarmen received an honorary membership in Penn State's Golden Key Society in recognition of his commitment to academics and athletics.

He is a resident of State College and a trustee emeritus of Gettysburg College.

Her outstanding dedication, model work ethic and strong degree of self-motivation have made her invaluable to OAS and to Penn State. Her job knowledge and application knowledge are outstanding and because of her understanding Penn State will have no problem converting systems in the year 2000 where the work is already at 98.5 percent completion."

Decker, a University employee since 1973, received a certificate, a wall plaque, gift certificate, a laptop computer and a luncheon in her honor. A permanent plaque listing the previous honorees is on display in the lobby of 31 Shields Building on the University Park Campus.

Behrend presents awards at annual spring convocation

Penn State Erie, Behrend College, honored more than 200 students and faculty members at its 36th annual Honors and Awards Convocation held as the academic year came to a close.

Among the awards given to faculty at the convocation the Best Student Organization Adviser Award, shared by Susan Daley, staff psychologist, and Chris Rizzo, director of student activities. Daley also received the Benjamin A. Lane Outstanding Service Award, which recognizes outstanding service and dedication to the college as exemplified by Benjamin A. Lane, associate professor of English emeritus.

Other faculty honorees included:

Eric Corty, assistant professor of psychology, who received the 1997 Penn State-Behrend Council of Fellows Excellence in Teaching Award; Jeffrey Pinto, the Samuel A. and Elizabeth B. Breene Fellow in management, who was awarded the 1997 Penn State-Behrend Council of Fellows Faculty Research Award; and Richard Englund, assistant professor of engineering, who received the Guy W. Wilson Award for Excellence in Academic Advising.

In all, more than 70 major academic honors were awarded to recognize leadership and achievement in both the classroom and in student life.

WEP receives national award

The Women in Engineering Program (WEP) was the recipient of the 1997 Women in Engineering Program Advocates Network (WEPAN) Award. The award recognizes Women in Engineering Programs that have made significant and demonstrated improvements to an established program and its overall climate, and that have provided professional guidance to women in engineering.

WEP programs reach women throughout the college and range from peer-led math study groups to co-educational hands-on project courses taught by peer instructors. For undergraduates, WEP initiated an orientation-to-engineering for entering female students in 1996, offered a range of hands-on workshops and established an e-mail mentoring program with alumnae. The organization also organized student work days for Habitat for Humanity and BuildPEN, an effort to hardwire all local public schools for Internet access.

At the graduate level, WEP developed a comprehensive program for students including month-

ly career development seminars led by women faculty for graduate women, a graduate/faculty networking directory and a WEP graduate steering committee.

"Women with the talent, skills and drive to become successful engineers are one of our most important national resources," Barbara Bogue, director of WEP, said. "WEPAN's leadership in this area, especially in the dissemination of statistical research and organizational information, has been a critical resource in the development of our program at Penn State. This recognition is very much appreciated."

WEPAN is a national non-profit organization that was founded in 1990. Its mission is to effect a positive change in the engineering infrastructure in which the academic, social and professional climate becomes equally conducive to females and males pursuing careers in engineering. The organization strives to make the engineering workforce diverse and multicultural. WEPAN has a membership of more than 500, including 258 corporate or institutional members.

Associate professor wins Jordan Award

Winston A. Richards, associate professor of mathematics and statistics, is the 1997 Penn State Harrisburg James A. Jordan Award winner.

The Jordan Award, presented annually by the Penn State Harrisburg Student Government Association, honors a faculty member "who best exemplifies dedication and achievement in teaching."

Nominations for the award are made by the student body during the Student Government Association spring elections. A committee of senior students interviews the finalists and selects the winner.

Richards, who teaches in the School of Science, Engineering and Technology, has been a member of the faculty since 1970.

Caldwell Service Award recipient named

Susan Decker, systems planning specialist III in the Office of Administrative Systems (OAS), is the sixth recipient of the Thomas R. Caldwell Service Award for Excellence.

The award honors Tom Caldwell, a senior systems analyst for 15 years in Management Services, now OAS, who died in a house fire April 10, 1991.

All OAS employees are eligible for the award. Nominees are judged on dedication to their job, interpersonal relations and outstanding job knowledge.

On the selection of Decker for the honor, Kenneth C. Blythe, OAS director, said, "Sue is a dedicated and extremely knowledgeable employee;

Awards

Associate professor cited for academic advising excellence

James Hilton, associate professor of agricultural engineering, has received the 1997 College of Agricultural Sciences Alumni Society Excellence in Academic Advising Award. Hilton coordinates the agricultural systems management (ASM) program and advises between 40 and 50 undergraduate students each year. He also advises the ASM Club and is serving a second term as adviser to the Agricultural Student Council. Hilton was nominated for the advising award by students in the ASM Club, with supporting letters from faculty, administrators, students and graduates.

One nominator wrote: "Throughout my undergraduate career, his door has always been open whenever I had a question, whether about sched-



JAMES HILTON

ules or something else pertaining to college life. He makes a large university seem a lot smaller by adding his personal touch."

Hilton, who earned his bachelor's and master's degrees in agricultural education from Penn State, joined the college faculty in 1978. He earned a Ph.D. in agricultural education from Iowa State University in 1979.

In 1992, Hilton was among 12 college faculty members to receive the Provost's Award for Collaborative Instruction and Curricular Innovation for outstanding collabor-

ative teaching. In 1993, students in the Department of Agricultural and Biological Engineering recognized his contributions with the Alpha Epsilon Outstanding Faculty Award.

Penn College marketing projects bring home gold, bronze and merit awards

Pennsylvania College of Technology's marketing efforts have earned a gold, two bronze and two merit awards in the 12th Annual Admissions Advertising Awards sponsored by *Admissions Marketing Report Publications*, the national newspaper of Admissions Marketing. Penn College competed among colleges and universities with 2,000 to 4,999 students.

—"Penn College & You," the college's 60-minute interview/call-in program, won a gold award in the television advertising/series category. Seen locally on Susquehanna Communications Channel 2 and in about 2 million homes in Pennsylvania, New York and California, the show is hosted and produced by **Tom Speicher**, broadcast media specialist in the College Information and Community Relations Office, and directed by **Michael Strunk** of Susquehanna Communications.

—A bronze award was earned in the television advertising/single spot category for the college television commercial category "Degrees that Work."

Devised by Speicher, the commercial used footage photographed by **Bruce Huffman**, producer/videographer and **James T. Gugin**, video engineer/editor in the college's Media Center, and was edited by Strunk.

—Two publications produced by the College Information and Community Relations Office received honors. Capturing a bronze in the catalog category was the 1996-97 Catalog, produced in cooperation with academic affairs and the Registrar's Office. In the newsletter category, the college's quarterly magazine, *One College Avenue*, captured a merit award. The effort is directed by **Elaine J. Lambert**.

—An additional merit award was earned in the video viewpoint category by the college's marketing video, "Degrees of Excellence: Degrees that Work." Produced by the college's Media Center, headed by **Frederick T. Gilmour**, director of instructional technology and media services, the marketing video featured footage photographed by Huffman and Gugin.

Lehigh Valley library assistant lauded

Kathleen J. Romig, library assistant at the Library Learning Resource Center of Penn State Lehigh Valley, has received the 1997 University Libraries Award.

Romig was chosen for the award by her colleagues on the faculty and staff of the Libraries in recognition of her commitment to a service-oriented philosophy, a consistently professional attitude, service as a mentor to student employees and involvement in the campuswide information system.

Romig joined Penn State and the University Libraries in August 1986 as a library clerk. Two months later, she was promoted to her present posi-

tion as library assistant where she supervises various campus library processes and activities in areas such as circulation, acquisitions, serials processing, library reserves and interlibrary loan. Romig also provides reference assistance, coordinates campus audiovisual services and assists in the design and maintenance of Penn State Lehigh Valley's World Wide Web site. Prior to her Penn State career, she worked at Dun and Bradstreet Corp. in Allentown.

Professionally, Romig serves as a member of the Council on Library/Media Technicians Inc. (COLT). She received her bachelor of science in education (magna cum laude) from Kutztown University.

Several honored for support of diversity

The Multicultural Resource Center has recognized a number of students, faculty and staff of color and a student organization for their accomplishments and contributions to students of color and for their support of diversity efforts at Penn State.

Those honored include:

■ **MANRA**, the National Student Chapter of the national society for Minorities in Agriculture, Natural Resources and Related Sciences received the Student Organization Award for the organization or group which most significantly promoted multiculturalism and supported students of color at the University.

■ **Nikita Bailey**, president of the Black Caucus, received the Leadership Award, which goes to the student who has provided outstanding leadership in student government, social services, media or other activities at Penn State.

■ **Carla Grundy**, programming co-chair of the Penn State chapter of the National Association for the Advancement of Colored People, received the Inspiring Student Leader Award, which goes to a student who keeps a low-profile and toils behind the scenes to make certain that student programs are successful.

■ **Mark Allen**, a McNair Scholar, and **Jane Fueyo**, a University Scholar, received Academic Scholarship Awards, which go to students who have completed or are working on a significant research project and who have at least a cumulative grade point average of 3.0 or better.

■ **Charles Dumas**, assistant professor in the School of Theatre Arts, **Cur Marshall**, student aid adviser, and **Samuel Richards**, lecturer in sociology, have received Faculty/Staff Diversity Recognition Awards, which recognize faculty and staff who have consistently promoted multiculturalism and demonstrated concern for and sensitivity to the needs of students of color.

Dumas, a director, playwright and teacher, has established new courses in African American drama and film and a theatre workshop in diverse cultures, which are especially noted for their historical and social content. He designed a show for *Ebony* and *Ivory* week, writes and directs theatrical productions for the Paul Robeson Cultural Center and serves on the University's Martin Luther King Jr. Planning Committee. For two years he developed and directed the central event of that celebration. The African American Graduate Student Association chose him the Outstanding Professor of the Year.

Marshall is well known to many students who for one reason or another have found themselves in financial difficulty with the risk of having to leave school. He has been especially creative in helping many find the resources to stay at Penn State. His colleagues know him as a resource for all students and he has helped many attain their maximum level of student aid. He has a reputation as an innovator, a professional and a tireless advocate for students.

Richards' 100-level course, "Race and Ethnic Relations," and his 400-level course, "Inequality in America," are well known among students of color for their emphasis on class discussion and the attention given to all students' comments to promote mutual understanding. His students respect him as bold and honest, especially in discussion on the African American and Native American experiences in America. He also encourages students to form out-of-class discussion groups on class-related and other topics.

Awards

Liberal Arts recognizes faculty achievements

The College of the Liberal Arts has recognized faculty for excellence in teaching, advising and research. The awards are sponsored by the Liberal Arts Alumni Society.

Those receiving recognition and their awards are **Baruch Halpern**, chair in Jewish studies and director of the Jewish Studies Program, the Class of 1933 Distinction in the Humanities Award; **William J. Harris**, associate professor of English, and **Bruce Weigl**, professor of English, Outstanding Teaching Award; **Gerald M. Moser**, professor emeritus of Spanish and Portuguese, Emeritus Distinction Award; **David A. Rosenbaum**, professor of psychology, Distinction in the Social Sciences Award; **James F. Smith**, professor of English and American studies, Penn State Abington, Outstanding Adviser Award; and **Lorena Waselinko**, lecturer in English, and **Rosemary L. Gido**, senior lecturer in crime, law and justice, Outstanding Teaching Award for Non-Tenure Line Faculty.

Halpern, who also is professor of ancient history, Mediterranean studies and religious studies and a Fellow of the Institute for the Arts and Humanistic Studies, is the author of three books and co-author of one book, all concerned with the historicity of the Hebrew Bible. He also has edited or co-edited four books on the Bible, law and society in Israel and the ancient Mediterranean world. He has contributed many book chapters to edited volumes and entries for the Anchor Bible Dictionary and the Oxford Companion to the Bible. He is a director of the Penn State-Tel Aviv University archaeological excavation at Megiddo. His recent work has been concerned with the connections between historical texts of the Bible and insights from recent archaeological work in Israel.

Harris, a member of the English faculty since 1992, teaches courses in 20th century American literature, 19th and 20th century black American literature and poetry writing. His philosophy of teaching literature is based on leading students to see and understand the world from points of view different from their own, and to place literature within its historical and cultural context. A widely published poet, Harris is the author or editor of four books and co-editor of a forthcoming anthology of the African American literary tradition.

Weigl joined the English department in 1986, directed the Creative Writing Program and since 1990 has directed the MFA program in creative writing. Author or editor of 12 books of poetry and essays, Weigl has been recognized with numerous awards and prizes, including the Pushcart Prize in 1980 and 1993 and the Best American Poetry Award in 1994. By encouraging



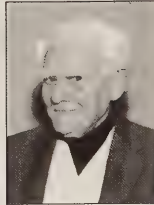
ROSEMARY L. GIDO



BARUCH HALPERN



WILLIAM J. HARRIS



GERALD M. MOSER



DAVID A. ROSENBAUM



JAMES F. SMITH



LORENA WASELINKO



BRUCE WEIGL

students to write honestly about themselves and their lives, and by emphasizing writing as a creative process of discovery, he leads each student to develop a more insightful and expressive voice in their writing.

Moser, who retired in 1978 after 29 years as a member of the faculty, continues to be active in his field, publishing literary studies and presenting papers at conferences in the U.S. and abroad. The significance of his contributions to the field of Luso-Brazilian literary studies has been recognized by a special award from the Portuguese government. He also continues to sponsor Bate Pago, a club for students and faculty interested in Portuguese.

Rosenbaum's research is concerned with the cognitive psychology of human motor control and perceptual-motor integration. His experimental and theoretical contributions to this field are related to how individuals choose among possible movements to accomplish specific actions; how movement action skills are learned and remembered; how actions such as reaching are adapted to the environment in which they are performed; and how individuals adapt to constraints (for example obstacles or joints stiffened as a consequence of aging) on their motor actions. He holds a Research Scientist Development Award from the National Institutes of Mental Health. His book, *Human Motor Control*, is a standard text and reference work in his field. He is the author of more than 70 scholarly articles, book chapters and other publications, and co-author or co-editor of three additional books.

Smith, a member of the faculty since 1971, is

Abington's chief adviser for associate and baccalaureate degree students in Liberal Arts. In addition to his regular teaching and extensive advising responsibilities, he has been instrumental in the success of the campus's American studies degree program, established two years ago. He began a newsletter for American Studies students to foster unity among the majors and inform them of activities and internship and job opportunities. Smith received the Penn State Ogontz Advising Award in 1975.

Waselinko teaches a variable number of courses for the English department each year, including the required freshman writing courses and technical writing, but she specializes in teaching business writing. She has served as a mentor to new teaching assistants and assists in the department's internship program. She has developed and taught a course for graduate students in chemistry on the writing of manuscripts for professional journals.

Gido, a senior lecturer in the Crime, Law and Justice Program in the Department of Sociology, has taught courses in both sociology and administration of justice at Penn State since 1992. Gido has been a Fellow of the Schreyer Institute for Innovation in Learning and in 1996 created a collaborative learning experience for the 300 students enrolled in Administration of Justice 111. By dividing the class into 37 teams of six to 10 members, and using graduate teaching assistants and undergraduate coaches/tutors, she provides a small-class learning environment and research experience within a large class context.

New data shows how humus handles pollution

By BARBARA HALE
Public Information

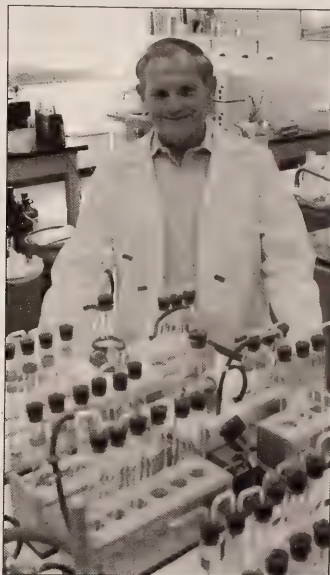
A new analytic approach pioneered by University of Maryland researchers is helping to pile up evidence about why and how composting's product, humus, can control pollution.

Jean-Marc Bollag, director of the Center for Bioremediation and Detoxification (CBD) and the project leader said, "Forty percent to 50 percent of chemicals applied to the soil, including pesticides and other potentially harmful compounds, stay in the soil." They remain there bound to humus, the brown or black organic portion of soil formed from the partial decomposition of vegetable or animal matter.

This binding, which is a natural process, can be considered beneficial since bound chemicals are unavailable to be taken up by plants or to leach into groundwater. However, until now, data on the nature of the bonds and the ultimate stability of the bound chemicals has been limited.

Over the last six years, Bollag and his research team have pioneered the use of carbon-13 nuclear magnetic resonance spectroscopy (C-13 NMR) to characterize these bonds. Their work has shown C-13 NMR to be a valuable new tool in the soil biochemist's arsenal.

Jang-Eok Kim, who



Jean-Marc Bollag led a project that shows how a product of composting can control pollution.

Photo: Greg Grieco

participated as a visiting professor in the Penn State project, described the coupling of the herbicide Bentazon with humic constituents. Kim is a member of the Department of Agri-

cultural Chemistry, Kyungpook National University Taegu, Korea.

Kim said that usually only molecules that have particular chemical groupings on their molecules,

either an oxygen/hydrogen grouping called a hydroxyl, or nitrogen/hydrogen grouping called an amino group, react and bind to humus. Bentazon has neither.

Yet, in the presence of catechol, a humic derivative, and the enzyme laccase, Bentazon binds and is completely transformed within 30 minutes. The transformation products were identified with C-13 NMR spectroscopy.

"Our group has carried out numerous studies to try to determine whether the detoxification effect of humus can be enhanced through stimulation of the binding process. We have found that certain enzymes and nonbiological catalysts do enhance the process. Of course, some contaminants are not good candidates for treatment with enzymes but we have found that they still can be detoxified indirectly by increasing the content of reactive chemicals in the soil," Bollag said.

"Fortunately, amending soil with additional organic matter to enhance detoxification is becoming more common as companies offer humus preparations possessing detoxifying capabilities."

Other members of the research team include Jerzy Dec, research associate, and A. Schaffer, Ciba-Geigy Ltd., Basel, Switzerland.

About 750,000 pages of journal literature have been converted from paper into an electronic database that resides at the University of Michigan. Sponsored by a grant from the Mellon Foundation, JSTOR began as a pilot project in 1994 to help the scholarly community take advantage of advances in information technologies.

For more information on the JSTOR Project, see <http://www.jstor.org>.

Research Roundup

University
one of six
partners in
regional
tree fruit
cooperative

Five land-grant universities and a federal agency have signed a unique agreement to form a regional partnership to better serve the tree fruit industry in Pennsylvania, Maryland, Virginia, West Virginia and New Jersey.

"Stimulated by a need to cooperate across state lines, this group is six equal partners working together for the benefit of the industry," said Charles Krueger, associate dean for research in the College of Agricultural Sciences. "This is a coordinated effort that spans research, extension and student education."

The agreement is one of several initiatives outlined in a 1995 Mid-Atlantic Strategic Plan developed by members of the tree fruit industry and representatives from universities and agricultural agencies.

The participating organizations are Penn State, the University of Maryland, Cook College-Rutgers University, Virginia Polytechnic Institute and State University, West Virginia University and the Appalachian Fruit Research Station of the USDA Agricultural Research Service in Barndale, W.Va. Each has three representatives on the working group.

Perceptions of animal agriculture studied

How do young people learn about agriculture, and where do they get the information? It is based on science or is it from self-serving organizations? To find the answers, researchers are studying public perceptions of farm animal production methods.

"The information children receive will influence their opinions for the rest of their lives," said Lowell L. Wilson, professor of animal science. "To make sure children have a balanced view of the use of animals, we need to determine what they know and how they get their information."

Students and their teachers are being surveyed about animal agriculture: animal agriculture products, food safety, animal well-being, how animal agriculture affects the environment and what farmers do to protect the environment for future generations.

Preliminary results indicate teachers are students' primary source of information about agriculture. "This emphasizes the need to determine what teachers know about animal agriculture and where they obtain their information," Wilson said.

Journal Storage Project makes use of digital technologies

University Libraries have begun addressing new digital technologies and collections as a charter participant in the Journal Storage Project (JSTOR). Through this venture, library patrons will now be able to access past issues of scholarly journals in electronic format through the World Wide Web at <http://www.libraries.psu.edu/pubinfo/collect.html>.

The first phase of JSTOR will allow participating members to offer access to a minimum of 100

journals in areas such as ecology, economics, history, mathematics, philosophy, political science and sociology. Users are able to view and print articles using standard PC equipment at any time and from any networked location. Issues of the journals are never "out;" they are always available, and in good condition. In addition, powerful searching capabilities allow users to limit their searches based on the information being sought.



Honored

Jim Tarman, a member of the athletic staff for 35 years prior to his 1993 retirement, was selected for induction into the National Association of Collegiate Directors of Athletics Hall of Fame.

Going pro

Seven football players are headed to the NFL.

Kim Herring and **Wally Richardson** were selected by the Baltimore Ravens in the third and seventh rounds respectively. Kicker **Brett Conway** went to the Green Bay Packers in round three. Ex-Lions signed as free agents included **Brandon Noble** by the San Francisco 49ers, **Brian Miller** by the New Orleans Saints, **Mark Tate** by the New England Patriots, and **Gerald Filardi** by the Pittsburgh Steelers.

Going pro II

Former Lady Lion point guard **Tina Nicholson** was selected in the third round by the Cleveland Rockers of the Women's NBA basketball league. Nicholson, who ranks 10th among NCAA All-time leaders in assists, was drafted 20th overall in the WNBA inaugural draft. Nicholson was a student assistant for the Lady Lions last season.

Academic honors

Third baseman **Jen McIntyre** was named to the GTE Academic All-District team. A .304 hitter during the past season, McIntyre has a 3.32 GPA in kinesiology. Baseball player **Carl Albrecht** and **Jared Sadlowski** also won All-District academic honors. Albrecht batted .356 with a school record 64 hits. He has a 3.38 average in secondary education. Sadlowski, a 3.77 student in management, hit .337 with team highs of 12 home runs and 16 doubles.

For the latest information on Penn State sports, visit the official Intercollegiate Athletics site on the World Wide Web. Go to <http://www.psu.edu/> and click on sports.

Check the Web

The *Intercom* is available online, and includes a search function. To view this issue, visit the Web at <http://www.psu.edu/ur/INTERCOM/Home.html>



Gift dedicated

Finance and international business student **James Neid** took advantage of nice weather recently to read at Foundry Park on the University Park campus. The one-acre park, a gift of the class of 1995, was officially dedicated on May 12. Located behind University House and Hammond Building, the park sits on the site of the original 1911 Foundry Building where students were trained in metallurgy and industrial, mechanical and electrical engineering. The building was removed in 1989. A centerpiece of the park is a reconditioned crucible once used by the University for melting iron. In addition to 27 pear trees, benches and flowers, there also is a time capsule buried at the site to be opened in 2096, the 200th anniversary of the College of Engineering. The park was funded with \$106,390 in gifts from 2,547 members of the 1995 graduating class.

Photo: Greg Grieco

Private Giving

Firm's \$200,000 gift to endow scholarship

The AVX/Kyocera Foundation has awarded the Department of Materials Science and Engineering \$200,000 to endow the AVX/Kyocera Foundation Scholarship in Materials Science and Engineering. AVX Corp. will provide funds for recruiting undergraduate students into the materials science and engineering field and supporting those already enrolled in the department's programs.

As a leading manufacturer of passive electronic components, AVX Corp. recognizes that Penn State is an important source of potential employees and research data — several

Penn State graduates are employed by AVX in key positions at their Myrtle Beach, S.C., facilities. The funding of this scholarship will help ensure that future students are able to pursue studies in materials science and engineering.

Eligibility for the scholarship will be based on superior academic achievement or promise of achievement and/or financial need. The scholarships will be awarded for one academic year, and may be renewed for subsequent years if the recipient continues to meet the eligibility requirements.

PENNSTATE



INTERCOM

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Going up

Workers from Paragon Construction & Development Co. of Montgomery, Ala., are moving quickly to erect the shell of the new child care center near the Penn State Conference Center Hotel on the University Park campus. When completed, the 13,000-square-foot facility will house about 200 infant to school-age children.

Photo: Greg Grieco

Alumni pledge \$4 million to help students and Libraries

University alumni William L. and Josephine Berry Weiss have committed \$4 million to the University to expand student financial aid programs in engineering and the liberal arts, and to help the University Libraries.

William Weiss, chairman emeritus of Chicago-based Ameritech, recently accepted a volunteer position as a vice chair of leadership gifts for Penn State's forthcoming capital campaign.

"The University has played a very important role in our lives. In fact, Jo and I first met while we were students there, and we want others to experience the benefits of Penn State as we did," he said. "In addition, we hope that our commitment will inspire others to get involved as the campaign begins to take shape, and help Penn

See "Weiss gift" on page 3

University's 'World Campus' is moving forward

By LISA M. ROSELLINI
Public Information

For decades, Penn State has been a leader in providing distance education and is now planning to swing its doors wide open to the global community with the establishment of a "World Campus"—so far, the ultimate concept in distance learning.

From his first months at Penn State, President Graham B. Spanier has alluded to what in other circles has become known as the "virtual university"—an educational institution with no walls, where learning is accomplished via the Internet or other new technologies. The "World Campus" envisioned by University leaders will be designed as a distinctive outreach campus of the University and will offer a broad spectrum of educational activities.

According to an April 29 report by an 18-member

study team looking into the "World Campus" concept, Penn State is preparing to offer as many as 30 academic programs through a variety of delivery methods. By the year 2002, more than 300 courses could be offered online or on CD-ROM, in combination with some traditional methods such as video and audio cassettes and textbooks. For students, particularly those who are place-bound, the World Campus offers increased accessibility for obtaining an education and will increase active, "hands-on" learning. Nontraditional students, like workers who must upgrade skills, would find the World Campus a welcome solution.

For Penn State, the World Campus paves the way for new international perspectives and partnerships that will enhance the learning enterprise and will help the University meet the explicit needs of learners. It also addresses demands from a changing student body.

"The global growth in population, combined with the information revolution, has created a demand for education and training that is outpacing the ability of traditional institutions to respond," James Ryan, vice president for outreach and cooperative extension, said. "The solution is not to build more physical campuses, but to create a new approach to education that effectively uses technology."

In a recent talk before hundreds of distance educators at the 18th International Council for Distance Education World Conference, Spanier said that the growth in knowledge also has fueled an overwhelming need for lifelong education in order for people to keep current and remain competitive.

Spanier said that by some estimates, "workers will need to spend at least 20 percent of their time engaged in learning, every day."

See "World Campus" on page 2

ON TARGET: THE NEW PENN STATE

As July 1 nears, campuses across the state are preparing for changes brought on by the reorganization of the University. Under the reorganization, some campuses will merge, while others will become four-year colleges. For a closer look at what some Penn State locations are doing, turn to page 4. These stories are part of an ongoing series planned for the *Intercom*, that will continue through the fall.

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Inside



GLAD you asked

To submit a question for this column, please send e-mail to the address listed below. Submissions must include a contact name and telephone number so that Intercom can verify the source. Requests for anonymity will be honored.

Q: Why doesn't the University offer an alternative to the maintenance drug prescription plan? An example would be a mail-in plan where no fee, or a small fee, would be charged. The plan requiring us to get our maintenance prescriptions at Ritener is unsatisfactory for several reasons: the hours are not convenient, they are closed on weekends, they do not carry all medications, and they require a 48-hour waiting period to fill a new or existing prescription. The latter item is most inconvenient when a doctor prescribes medication which he/she would like a patient to begin taking immediately.

— Maria
University Park

A: The Penn State Maintenance Prescription Drug Plan is offered as an alternative to the prescription drug coverage provided under the major medical provisions of both HealthPass PPO and the Hospital/Surgical/Major Medical Plan (Plan A). HealthAmerica HMO participants also may elect either the Maintenance Prescription Drug Plan or the 50/50 drug plan offered by HealthAmerica.

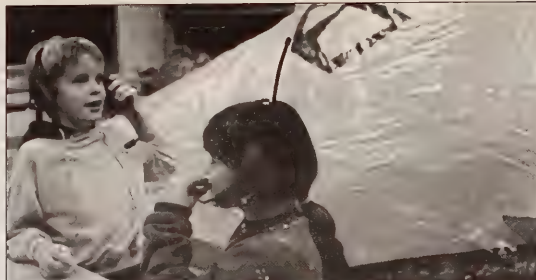
Prescription drug coverage represents a significant portion of the overall cost of the health care plans offered by Penn State. Consequently, the Employee Benefits Division is committed to exploring and implementing programs that can provide quality service that is affordable to both employees and the University. Evaluation of the Maintenance Prescription Drug Plan by mail-order drug providers concluded that they could not offer the same plan without an increase in cost to both employees and Penn State.

The Ritener Pharmacy is open from 7:30 a.m. to 5 p.m. on Monday, Tuesday, Thursday and Friday. Wednesday hours are 9 a.m. to 5 p.m.; Saturdays, 11 a.m. to 3 p.m. The schedule allows for time before the start of normal University business hours, but most employees use the campus mail system to order and receive their prescriptions. Pharmacy hours are reduced when the student population decreases and, like the rest of the University, is closed on holidays.

While the Maintenance Prescription Drug Plan Provides staff with significant discounts on certain drugs, the program was not designed to cover all drugs it may be prescribed. The primary mission of Ritener is as a student health center. When the Maintenance Prescription Drug Plan was developed, the 48-hour period was established to allow Ritener to attend to the needs of Penn State students while still providing a valuable service to faculty and staff. The staff at Ritener pharmacy is very accommodating in emergency situations and other circumstances where the 48-hour waiting period would cause undue hardship to the patient. It is unlikely that a mail-order prescription program could provide less than a 48-hour turnaround.

Health care delivery systems continue to evolve and as they do, the Employee Benefits Division will continue to assess the systems and their effect on faculty and staff.

— Phil Carlin
Benefits Specialist
Office of Human Resources



Do you read me?

Two participants in Penn State DuBois' Young Astronauts summer course pretend to be members of the command center for a shuttle mission to Mars. The course is one of 30 offered during the summer months as part of the campus "Kids in College" program, now in its 12th year of existence. The program, which runs through Aug. 1, is designed to enrich early learning experiences.

World Campus

continued from page 1

"Others say that just to keep even, we will need the equivalent of a full year of college instruction every seven years," Spanier said. The president said that in the United States alone, that translates into more than 20 million new full-time students each year.

"They would fill 672 residential campuses with an enrollment of 30,000 students each at a cost of \$235 billion to build and \$217 billion each year to operate," he said. "To meet the demand between now and 2010, this would require one campus to open every eight days."

"We can create those institutions, or find new ways of working together to meet these learning needs," he said.

Although the idea of a virtual university may sound like something from a sci-fi movie made in the mid-1980s, many institutions and private educational service companies are inching toward the development of just such a model. One consortium of universities in 13 western states, the Western Governors University, will roll out its first degree — an associate arts degree — in 1998, according to Robert Albrecht, director of academic development for WGU. Highly publicized in recent months, WGU plans to use existing institutions, existing courses and existing faculty in a far-reaching collaborative effort. So far, WGU is only concentrating on serving students in the western part of the United States. Within the corporate world, increasing numbers of corporate virtual universities are rushing to meet the professional education and training needs of employees.

"Penn State is talking about distance education that is comprehensive in scope and commitment," Spanier said. "It is a natural transition for us and it will put us at the forefront of distance learning."

The courses being discussed for inclusion in Penn State's World Campus run the gamut from those that lead to a bachelor's or master's degree, to non-credit courses that would help people upgrade current job skills or be more competitive in the job market. According to a 1995 study by the Social and Economic Sciences Research Center, more than 80 percent of adults age 30-49 reported that they had participated

in work-related training or education in the last three years and were likely to do so in the future.

Some areas identified by the World Campus study team as potential start-up programs include engineering, turfgrass management, anesthesia, child care, chemical dependency, geographic information systems and nutrition. Programs under consideration, according to Ryan, must be in areas where Penn State is already a proven leader and where there is a clear demand for the program.

In addition to looking at potential programs, the study team also has been looking into external funding possibilities from corporations and private organizations that would help support the World Campus concept.

"The World Campus is more than just a mere expansion of distance education programming," Ryan said. "It's an information-rich environment that is highly interactive. It will provide students with a lot of access to faculty and a lot of collaborative opportunities."

Ryan said there also is a heavy focus on evaluation and assessment to ensure the continuous improvement of World Campus programs.

"We foresee dynamic communications between and among students, faculty and international experts," Ryan said. "We have identified programs within markets and there is now energy being spent on organizing department and faculty support, and setting up some teams to develop the courses."

But is the rest of the world really ready for cybereducation?

Gary Miller, associate vice president for distance education and a member of the study team, said a recent Odyssey market research study revealed that 46 percent of households with computers are now online and that those households now spend an average of 9.4 hours a week online — a 59 percent increase over the previous year.

"The information technology revolution has changed education and society," Miller said. "The World Campus will create a total learning environment that responds to the needs and circumstances of the learner. Our history in distance education gives us an edge in this arena and we should take advantage of it."

Weiss gift

continued from page 1

State strengthen its position as one of America's greatest universities."

A substantial portion of the Weisses' gift will be used to establish a graduate fellowship program in the colleges of Engineering and the Liberal Arts. Over the period of the gift, 96 fellowships will be awarded. These students also will participate in a unique interdisciplinary seminar. Additionally, about 40 undergraduates will receive scholarships throughout four years of study. Preference will be given to first-generation college students. The Weisses also have designated part of their gift to support the University Libraries.

Bill Weiss graduated from Penn State in 1951 with a bachelor's degree in industrial engineering. Jo Weiss is a 1950 liberal arts graduate. The Weisses' gift is only the most recent in a series of financial contributions the couple has made to Penn State. The couple is now responsible for gift commitments totaling more than \$7 million in their lifetime.

The Weisses have previously established faculty fellowships in engineering and the liberal arts, the Josephine Berry Weiss Chair in the Humanities and scholarships for financially needy students.

Bill Weiss, a native of Big Run, began his career with Bell Telephone Co. of Pennsylvania in 1951. He rose through that company's management ranks, becoming a vice president in 1973. Three years later, he became vice president of operations for Wisconsin Telephone and served in various executive posts with other components of what would become Ameritech when that firm divested from AT&T in 1984. He served as Ameritech's first chairman and CEO until retiring in 1994. He also has served as a Penn State trustee since 1994 and has received the University's Distinguished Alumnus award—the highest recognition Penn State bestows on its graduates. He has been active in civic and cultural affairs throughout his life.

Jo Weiss, a Lock Haven native, has held leadership positions in many Chicago-area civic and educational groups. She serves as a member of the board of directors of the Chicago Child Care Society, the Women's Board of Northwestern University, the Adler Planetarium board and the president's council of the Museum of Science and Industry. She also serves on Penn State's Libraries Development Advisory Board.

Private Giving

Local firm endows \$100,000 scholarship at Penn State Erie

Snap-Tite Inc., a local manufacturer of fluid power components, has endowed a \$100,000 scholarship at Penn State Erie, Behrend College, to provide recognition and financial assistance to students at the college.

The scholarship will first benefit employees of Snap-Tite Inc. and their families. Consideration will then be given to graduates of Union City High School.

Snap-Tite, which makes quick-dis-

connect couplings, played a major role in the development of Penn State Behrend's School of Engineering and Engineering Technology. George A. Clark, chairman and CEO of the firm, serves on the board of directors of the College's Council of Fellows.

Both George Clark and his son, Gary L. Clark, vice president and chief administrative officer of Snap-Tite, were recently honored by the Board of Trustees for their gift.



JOSEPHINE AND WILLIAM L. WEISS

BOOK SHELF

Charles E. Scott, Edwin Erle Sparks chair in philosophy, is the author of *On the Advantages and Disadvantages Of Ethics and Politics*, published by Indiana University Press. In his work, Scott examines the paradox that our ethical and political ideals may perpetuate the very evils they intend to prevent.

He takes as his point of departure the question of ethics: that values and their pursuit in the West often perpetuate their own worst enemies. At issue are the dangers in the structures and movements of images, values and ways of knowing that are most intimately a part of our lives. Scott examines the thought of Nietzsche, Heidegger, Foucault and Levinas on questions of responsibility, transcendence, tragedy and self-fragmentation.

Scott also is the author of *The Question of Ethics, The Language of Difference and Boundaries in Mind: A Study of Immediate Awareness Based in Psychotherapy*.

Kinderkultur: The Corporate Construction of Childhood, edited by Shirley R. Steinberg and Joe L. Kincheloe, examines the role corporate moguls and the media have played in shaping the experience of childhood today.

The book's authors, including College of Education professors Jeanne Brady, Henry Giroux, Aaron Gresson and Joe Kincheloe, analyze the products and messages corporations target to children in order to make a profit. The book also reviews the impact that TV shows, popular books and video games have had in shaping a new era of childhood.

The authors agree that this "corporate kinder culture" is harmful to children. It produces violence, reinforces gender stereotypes and racism, and speaks to the status quo—ignoring the reality for many children growing up at or below the poverty line. Collectively, the authors encourage parents and teachers to carefully examine media messages, discuss them with their children and students, and become politically active in order to hold corporations accountable for their actions and the negative effects they have on children.

Benedictine Roots in the Development of Deaf Education, written by Marilyn Daniels, associate professor of speech communication at Penn State Worthington-Scranton, examines the educational instruction of the deaf from its Benedictine beginning to present.

The book, published by Greenwood Publishing Group Inc. in Connecticut, traces the historical pedagogical affinity among Pedro Ponce de Leon, credited as being the first teacher of the deaf, and Juan Pablo Bonet, Charles Michael de l'Épée, Thomas Hopkins Gallaudet and Edward Miner Gallaudet. It also provides the historical and philosophical basis for Jewish and Christian beliefs concerning the condition of deafness.

Daniels also is the author of *The Dance in Christianity: A History of Religious Dance through the Ages* (1981).

William Crisman, associate professor of English, comparative literature and German at Penn State Altoona, recently published a book with the support of the Penn State Altoona Advisory Board. His book, *The Crises of "Language and Dead Signs" in Ludwig Tieck's Prose Fiction*, treats the language of romanticism and its relation to modern language theory. The book was published by Camden House, associated with the University of South Carolina. Crisman has published extensively on German and English-language romanticism and has written more than 30 articles.

Though long ignored, children have an undeniable and telling history of their own, argues a Penn State professor in a new book titled *Growing Pains: Children in the Industrial Age, 1850-1890*.

Priscilla Ferguson Clement reveals that children are and have throughout history been actors in their own right. The book, published by Simon & Schuster MacMillan's Twayne Publishers, is the first of its kind published on children from this era—a time in American history when children made up half the U.S. population.

Though today's children share a common culture of MTV, Sesame Street and the same toys bought at the same chain toy stores, their worlds also are remarkably different. *Growing Pains* sheds light on the magnitude of these differences, revealing how critical historical events, such as the Civil War and industrialization, dramatically altered children's lives and set the stage for many of the disparities they face today.

Ferguson Clement, an associate professor of history at the Delaware County campus, has written extensively in books and scholarly articles on children in history, often focusing on women and children in poverty and on welfare.

THE NEW PENN STATE

Capital College offers students more options

Editor's note: The following stories are the first in an ongoing series focusing on the changes Penn State is undergoing as part of its redesign. Throughout the coming year, the Intercom will look into various aspects of the reorganization of the University, which becomes effective July 1.

By KIMBERLEY YARNELL BIERLY
Public Information

Live at home ... get a college degree ... spend less money. That may sound like a dream, but the concept will become reality for students when the redesign of Penn State Harrisburg, Capital College and Penn State Schuylkill, Capital College is completed this fall.

"It will be one college geographically distributed," explained John Bruhn, provost and dean of The Capital College. "The redesign is geared to allow each location to better serve its community. The merger will allow students to continue to live at home while getting a four-year degree, thus costing them less money for their education. It will offer more educational opportunities for that student who makes a conscious choice to stay at home."

"Also, distance education, in which Penn State is already a major player, will begin to fill an even bigger role in the local communities," he added.

The redesign of Penn State, approved on Jan. 14 by the state secretary of education, calls for Penn State Harrisburg to merge on July 1 with Penn State Schuylkill—which is just 55 miles northeast of the Harrisburg campus. With the merger of these two Penn State entities, the Capital College becomes a four-year baccalaureate and graduate college, with a wider regional presence. This merger and the development of select partnerships with other institutions will provide many new opportunities to expand the college's mission in Pennsylvania, regionally, nationally and internationally.

A committee comprised of members from both locations developed a strategic plan with an overall theme of "Building Partnerships in Learning" and established four major goals for the next five years:

- Provide a quality educational environment and experience;
 - Develop high-quality strategic educational linkages to the state, region, nation and world;
 - Plan for and use information technology effectively; and
 - Enhance the college's cultural environment through diversification and attention to quality.
- Driving time between Middle-

Institutional partnerships at core of philosophy

By STEVE HEVNER
Penn State Harrisburg

When John G. Bruhn came to Penn State Harrisburg after many years of academic leadership at the University of Texas at El Paso, he brought with him a "howdy partner" philosophy.

In a time of limited resources and rapidly increasing and aggressive competition, Bruhn's vision for the Capital College quickly became one of linkages and partnerships to strengthen both the institution and the communities it serves.

"For a long time, universities and colleges have been competing among themselves, each attempting to have more and better programs and taking pride in their uniqueness. But times have changed," Bruhn said. "The public, lawmakers and benefactors are asking for greater accountability, elimination of duplicative programs and demanding long-term productivity of tenured faculty."

"In higher education, we are supposed to have a common goal of educating people who are rich in talent and energy and lead us into the next century. But, let's face it, in the past we worked better at being competitors than partners."

"The issue is not to keep asking faculty and staff to continue to do more and more with less and less—certainly quality will suffer at some point—but rather do things we need to do in new, more efficient ways," he said.

The cornerstone of Bruhn's philosophy of quality is linkages among institutions so they can become more effective by working as partners. It didn't take long for him to put this plan into practice. Just three months after he took the reins of the 3,500-student Capital College, Bruhn replaced the key Harrisburg Area Community College articulation agreement—which for years had informally allowed HACC students to transfer credits to Penn State Harrisburg—with a dual enrollment pact. Under the dual enrollment agreement, students are able to choose a Penn State Harrisburg/HACC path as early as their senior year in high school. Immediately successful, the program involved more than 200 HACC students within one year, allowing a seamless transfer from one institution to another.

But the HACC pact was only the beginning of a partnership venture which has now reached as far as Mexico. In quick succession came



Partnerships not new

John Bruhn, provost and dean of The Capital College, has worked to develop partnerships with other institutions—a practice that has helped location-bound students to earn a Penn State degree.

joint programs which offer:

- A Ph.D. in pharmacology from the College of Medicine at Hershey and an MBA from Penn State Harrisburg; and

- A law degree from The Dickinson School of Law and a master's degree in public administration from Penn State Harrisburg.

Next came an agreement which eases the transition into the Penn State Harrisburg MBA and master of science in information systems programs for Elizabethtown College students.

Dual enrollment agreements have been initiated in the past several months with Hagerstown Junior College in Maryland and the nearby Reading Area Community College. Several more such pacts are scheduled for the near future as the college continues to foster and welcome educational partnerships.

The most distant partner for Penn State Harrisburg—Pachuca, Mexico—has very rapidly become one of its most vibrant with a number of cultural and educational opportunities already under way. An outgrowth of the City of Harrisburg's "sister city" arrangement with Pachuca, Penn State Harrisburg has become a major player in the ongoing relationship with a number of educational institutions in the State of Hidalgo, of which Pachuca is a part.

Beginning with a visit from 30

Mexican school children to the Penn State Harrisburg summer "Kids College" last year, the Hidalgo partnership has already reached a faculty exchange stage and will soon include students.

This summer, two faculty members from the Penn State Harrisburg School of Science, Engineering and Technology will spend up to a month on an exchange at a technological university in Hidalgo with two Mexican faculty members slated for a return visit in September.

Other plans include:

- Offering special seminars on public administration with the Hidalgo Institute of Public Administration;
- An agreement with the Public Education System of Hidalgo which will open the way to a variety of cultural and educational activities for both locations;
- Faculty and student exchanges with three Hidalgo universities;
- Internships and individual study opportunities;
- Programs in Hidalgo and Pennsylvania for American teachers of children of Mexican migrant workers; and
- Satellite or interactive video delivery of public administration, business management, engineering and engineering technology, agricultural sciences and other programs between Hidalgo and Pennsylvania.

THE NEW PENN STATE

Options

Continued from page 4

town, where Penn State Harrisburg is located, and Schuylkill Haven is one hour and the merger will affect everything from "academics to grounds care," Bruhn said.

Penn State Harrisburg

Penn State Harrisburg, Capital College, which is located on 218 acres in Middletown, approximately 20 minutes from downtown Harrisburg, currently has an enrollment of 3,500 students in upper division and graduate-level courses offering 25 baccalaureate, 17 master's and two doctoral programs. Continuing Education at Penn State Harrisburg also delivers two associate degree programs. The Penn State Harrisburg commitment to the Commonwealth's capital also features two Harrisburg centers — Eastgate and Downtown — which are locations for classes, non-credit offerings, lectures, forums and other community outreach services.

Founded in 1966, Penn State Harrisburg is the largest University location outside of University Park. In addition to the wide variety of academic programs, the college also offers more than 40 clubs and social organizations, 14 professional and honor societies, lecture series, cultural events and intramural athletic teams.

It is positioned near Harrisburg to serve the economic and cultural infrastructure of the greater Capital region. The combination of its doctoral prepared faculty, the resources of the second largest network of linkages within the University's system and its growing network of linkages with other educational institutions has strengthened the college's mission and its ability to serve a growing and diverse constituency.

Students come from the University's other locations, community and junior colleges and other colleges and universities to attend Penn State Harrisburg. Between 500 and 600 students live on campus, while the others commute from nearby communities.

Students, faculty and staff at Harrisburg are anxiously awaiting the construction of the 115,000-square-foot, \$17.3 million library in 1998-99, Bruhn said. Currently, the library is located in 100,000-square feet of space in Olmstead Building, which also serves as the administration building and main classroom building at Harrisburg. The new library will be able to serve nearly 1.5 million potential users.

In addition, another study is under way to replace outdated housing units that during the 1950s were used as an Air Force base. More than \$16 million has been designated for this project.

Penn State Schuylkill

Penn State Schuylkill is one of the oldest locations in the Penn State system, having continuously served the academic needs of the region since 1934. Academics at Penn State Schuylkill include the first two years of most of the University's four-year majors and several associate degree programs. Typically, at the end of two years, baccalaureate students may choose to complete their degrees at University Park, Penn State Harrisburg, or Penn State Erie, Behrend College.

The campus sits on 70 acres and has eight buildings, including a new library. Enrollment is 1,014 and there are three apartment complexes on campus. An additional unit of student apartments is currently under construction and will bring the number of residential students close to 250, according to Wayne Lammie, campus executive officer. About 20 clubs



Collection growing

The Ciletti Memorial Library at Penn State Schuylkill, which opened in 1994, is in the process of adding to its collection of resource materials as a result of the merger.

and student organizations, including intramural sports are offered for students.

The housing is owned by the Schuylkill campus advisory board which is a separate non-profit corporation. "The land was donated to the University by the county and the apartments are being financed through bonds or tax-exempt bank loans which are guaranteed by the county," Lammie said. "This allows financing at a very low-interest rate and the rental income is used to pay off operating and amortization costs. It doesn't cost the county any money — they are just lending the University their credit. If we had to go out on the market for a loan, we could not have gotten an affordable interest rate."

Why merge?

The merger was an on-going, yearlong effort to integrate two autonomous locations into one, and the faculty senates from each location are working together on the transition to make it as smooth as possible, Lammie explained.

"Everyone is working hard to make sure the first two years at Penn State Schuylkill dovetail into the Penn State Harrisburg program. In addition to the faculty, all the support units have been meeting and planning for the past year," Bruhn said.

"One of our major concerns as we looked at reorganization choices was how to quickly provide the community with baccalaureate programming that has been requested for a very long time," Lammie said. "There is no other comprehensive post-secondary institution in our area. Most of the people in this area are location bound and can't drive an hour to get to an institution comparable to this one."

The merger is not only a partnership between the two campuses but also a merger between the two respective communities, he said, explaining that select four-year programs will be offered at Penn State Schuylkill — but only after the community has voiced a need for them. The redesign is geared to have each respective location better serve its community.

Even though the merger is not in effect for another few weeks, Bruhn said he has already seen teaching and research links between the two locations. In addition to being able to complete their baccalaureate education at or near home, there are other academic benefits for students. For example, Penn State Harrisburg will extend the criminal justice program to Penn State Schuylkill, which will give students the opportunities for internships at the three prisons in the Schuylkill area.

Degrees in criminal justice, education, general business and psychology were some of the key areas identified in a Schuylkill market survey. We have been sensitive to the program needs of the community and the wish to retain the Penn State Schuylkill identity at that location which has a long history within the University. The original campus was in Pottsville and it was later moved to its current site in Schuylkill Haven," Bruhn said.

To the Harrisburg community, the merger will open the door for people to think of the institution as a regional college, which fits with the already established pattern of outreach and partnership.

By July 1, Penn State Schuylkill faculty who are in the tenure track or who have tenure will have choice of keeping their tenure at University Park or transferring it to Penn State Harrisburg.

Bruhn sees this merger as a positive for both locations, but cautions faculty at Penn State Schuylkill not to allow it to stop them from working with colleagues at University Park, while also encouraging them to work with their new colleagues at Penn State Harrisburg.

"The Faculty Senate is the first merger success story," Bruhn said. "The two agreed to merge and have completed a new constitution to be voted on before July 1. The members decided to rotate the Senate presidency between faculty at the two locations. "The Capital College has to respond to changing and growing needs of the region or our competitors will rush in and fill the void. I think this merger answers those needs for the residents of the region," Bruhn said.

College of Medicine honors N.Y. doctor as Alumni Fellow

Dr. Burke A. Cunha, chief of the Infectious Disease Division at Winthrop-University Hospital in Mineola, N.Y., has been named the 1997 Alumni Fellow of the College of Medicine. He will visit the college in September to present a lecture titled "On Work, Wisdom, Passion and Virtue."

Cunha, who received his M.D. degree in 1972 from Penn State, also is hospital epidemiologist and vice chairman of the Department of Medicine at Winthrop-University Hospital. He is a professor of medicine at the State University of New York School of Medicine at Stony Brook, N.Y., and is editor-in-chief of three medical journals. Cunha is one of the few non-Harvard faculty members regularly invited to participate in the Harvard Medical School's Internal Medicine and



BURKE A. CUNHA

Infectious Disease Continuing Medical Education Programs. In addition to directing his own Internal Medicine Board Review course for the past 17 years, he is a frequent participant in board review courses and has been a visiting professor at several medical schools. At Winthrop-University Hospital, he also coordinates the Arts and Humanities Program and the History of Medicine lecture series.

Cunha serves on 25 editorial boards and is a reviewer for 26 medical journals. He has written eight books and more than 50 book chapters.

The Alumni Fellow Award, presented by the Penn State Alumni Association, is administered in cooperation with the academic units. The Board of Trustees has designated the title of Alumni Fellow as permanent and lifelong.

DuBois associate degree program fully accredited

The new Penn State DuBois associate degree program in occupational therapy has been granted full accreditation status by the Accreditation Council of Occupational Therapy Education of the American Occupational Therapy Association (AOTA). The accreditation comes nearly a full year earlier than anticipated. AOTA is the regulatory body of the occupational therapy profession.

The Occupational Therapy Program helps prepare students to enter the health care profession as certified occupational therapy assistants. Working under the direction of a registered occupational therapist, these skilled clinicians help individuals of all ages overcome various physical, mental and emotional challenges so they can live their lives to the

fullest. The program includes classroom, laboratory and field work components.

Twenty students are currently enrolled in the DuBois program's inaugural class. The second class is fully enrolled with 34 students scheduled to begin studies this August.

DuBois initiated the occupational therapy program in 1996 as a complement to the three other associate degree health care programs offered by the campus — human development and family studies, medical laboratory technology and physical therapist assistance. Components of the DuBois Occupational Therapy Program parallel those of successfully established programs at Penn State's Mont Alto and Berks campuses.

Faculty/Staff Alerts

Open meetings

A series of open sessions to keep the University community informed on the progress of the University Park Campus Master Plan process is scheduled, beginning this month.

On June 18 from noon to 1:30 p.m. in 110 Wartik Laboratory and from 7:30 to 9 p.m. the same day in the Patton Township Municipal Building, Johnson, Johnson & Roy, Campus Master Plan consultants, will present conceptual options for the campus-wide opportunities plan.

This session is the first in a series of four public meetings scheduled on the topic. Future meetings will be held Nov. 12, April 22, 1998, and Aug. 26, 1998.

Early deadline

Because of the July 4 holiday, the *Intercom* staff has scheduled an early deadline for the July 10 issue. Instead of the normal Wednesday deadline for copy, Tuesday, July 1 at noon will be the cutoff time for submission of information to appear in the July 10 issue. Anyone interested in submitting information should send it to lmr8@psu.edu. The publication schedule for the remainder of the summer follows: June 26, with a deadline for copy submission of June 18 at noon; July 10, with a deadline of July 1, noon; July 24, with a noon copy deadline of July 16;

Aug. 7, with a deadline of July 30; Aug. 21, with a noon deadline of Aug. 13.

Payroll changes

This month marks the beginning of a new era for payroll with the implementation of new payroll distribution methods and new payroll forms for both the payroll check and the remittance advice forms — which are sent to employees who have direct deposit, itemizing taxes and deductions for each pay period.

The new checks will more closely resemble the new remittance advice forms. However, the new checks will be green and the new remittance advice forms will be blue.

The new form will allow more flexibility in regard to the types of information supplied to the employee. The forms will be printed on a laser printer, which will make them easier to read.

There also are new procedures for paycheck distribution. Checks that were previously available for pickup from the Bursar will now be distributed via interoffice mail. In addition, employees who receive their direct deposit stubs via U.S. mail will now receive them through interoffice mail. These changes will save the Bursar's office roughly \$12,000 per year.

Please report any problems to your financial officer.

CIC program names five Fellows

Five University faculty and staff members have been named Fellows to the Committee on Institutional Cooperation (CIC) Academic Leadership Program. The CIC is the academic consortium of the Big Ten universities plus the University of Chicago. Through this program, the CIC is helping to develop leadership and managerial skills of faculty and staff on CIC campuses who have demonstrated exceptional ability and administrative promise. Those selected because of their past contributions and potential to undertake key leadership responsibilities at Penn State include:

■ **Michael J. Dooris**, director of planning and research assessment, Center for Quality and Planning

■ **Sarah G. Wayman Kalin**, acting assistant dean, University Libraries; and librarian, Division of Collections and Reference Services

■ **R. Scott Kretschmar**, professor of kinesiology and immediate past chair of the University Faculty Senate

■ **Susan B. Shuman**, 1997-98 Administrative Fellow in The Office of the President; and senior research project manager in Continuing and Distance Education

■ **John W. Tippecanoe II**, director, American Indian Leadership Program and professor of education. Robert Secor, vice provost for academic affairs and personnel, continues to serve as the Academic Leadership Program liaison for Penn State.

The 1997-98 Fellows will be participating in three seminars during the academic year. One of those seminars, "The University of the Future: Motivating Change," will be hosted by Penn State on April 16-18, 1998. For more information on the CIC, visit the Web at <http://iowu2.cic.net/cic/>.

Upcoming HRDC courses

To register for these or other Human Resource Development Center programs, complete the registration form found in the back of the Spring/Summer HRDC catalog, and fax to (814) 865-3522.

■ **Productivity Skills for Success in the Work Place of the Future - PRO 094**

Develop skills to help you achieve quality outcomes with maximum efficiency in spite of the potentially disruptive effects of organizational change. June 30, 8:30 - 11:30 a.m., 319 Rider Building. Cost: \$35.

■ **Communicating Under the Pressure of Changing Conditions - PRO 095**

Recognize and resolve confrontation and conflict which occurs due to change in the workplace with effective daily communications. July 11, 9 a.m. to noon, 319 Rider Building. Cost: \$35.

ABC to televise football opener

ABC-TV Sports plans to televise Penn State's 1997 season opening football game against Pittsburgh on Saturday, Sept. 6, as part of its Big Ten Conference television package. The Pitt game will be televised regionally with kickoff set for 3:30 p.m. EDT from Beaver Stadium. Penn State has met Pitt more than any other opponent and the Lions hold a 47-41 series advantage, winning the last four meetings. The schools have not met since 1992.

Orion program orients freshmen to college life

By KAREN WAGNER
Public Information

A few yards away from the glowing warmth of the campfire and roasting marshmallows they will scan the night sky for a glimpse of Orion, one of the most prominent constellations in the northeastern sky and the namesake of Penn State's new freshmen wilderness orientation program.

This August, up to 80 Penn State freshmen will join thousands of new students across the country who are getting their orientation to college life in the outdoors. Sponsored by the Shaver's Creek Environmental Center, Continuing and Distance Education and the Penn State Outing Club, the Orion program helps new students form friendships and develop survival skills that will help them make the transition to college life. Universities across the country, from Ivy League to small private colleges, and a few state universities are implementing freshmen wilderness orientation modeled after programs like Outward Bound.

All Orion trips will begin and end at Penn State's University Park campus. Campers will spend five days and four nights on the trail with a final day and evening at the Penn State Outing Club cabin in the University's experimental forest in the nearby mountains. Although the destinations will vary, each trip will offer incoming freshmen the opportunity to explore wilderness areas surrounding State College.

"They will meet new people and challenge themselves physically and



emotionally by stepping outside their comfort zone, but we also want them to have fun," said Kurt Merrill, program supervisor for the Penn State Outing Club.

Campers are advised to break in their hiking boots and pack their water bottles. The week will include backpacking, a high-ropes course and team-building activities. And there's a bonus. Students who enroll for either the Aug. 10-15 or Aug. 17-22 session will receive two credits toward their general education requirements. The program will be listed as Kinesiology 297. Students will pay tuition on the two-credits in addition to a \$125 program fee for meals, equipment and use of camping gear.

Similar orientation programs are fairly common among other universities and colleges. Some universities, like Princeton, run more than half of all incoming freshmen through their program. Dartmouth, which founded its program 61 years ago, attracts 90 percent of its incoming freshmen class.

Penn State Outing Club offers outdoor adventure

With more than 1,000 members, the Penn State Outing Club is one of the largest student-run organizations on campus. Its mission is to stimulate an appreciation of outdoor activities and an awareness of the need for conservation.

The club offers students the opportunity to develop technical, social and leadership abilities in the out-of-doors.

Some upcoming summer activities include:

■ Basic Rock Climbing Course, July 13 and July 20

■ Clarion River Canoe Trip, July 19-20

■ West Branch Susquehanna Canoe Trip, July 26-27

For more information, visit their Web site at: <http://cac.psu.edu/tsn3/psoc>.

Shaver's Creek offers programs for all ages

The staff at Shaver's Creek Environmental Center offers science and wilderness experiences for outdoor enthusiasts of all ages. The Nature Center features a raptor center for injured hawks, owls and eagles; gardens, hiking and cross-country skiing trails.

For more information about program content and registration, visit their Web site at: <http://www.cdc.psu.edu/ShaversCreek/>

When Lynne Hudson signed on as Penn State's program director at Shaver's Creek, she saw great opportunity in bringing together the efforts and resources of the Outing Club, the Environmental Center and C&DE.

"We united our efforts. The Penn State Outing Club had the camping gear and knew the area's hiking trails. Shaver's Creek had the staff and facilities to train the trip leaders, and C&DE lent its expertise in program planning and implementation," Hudson said.

The group has been meeting since October, laying the logistical groundwork, leaving nothing to chance. Even the menus will have to be planned carefully.

"We can't just call catering — it has

to be hike food," Hudson said.

The constellation Orion contains some of the brightest stars — a guide to the rest of the night sky. Organizers hope that the freshmen wilderness orientation program will similarly serve as a guide to freshmen, striking a new beginning and establishing new friendships and new directions in their academic and professional careers.

The Orion program is open to Penn State freshmen enrolling in summer session or fall semester at all campus locations.

The registration deadline for the Aug. 10 trip is July 1. For more information, contact Suzanne St. Pierre, Conferences and Institutes, at (814) 863-5140.

New camera provides a powerful X-ray view of the universe

X-ray vision beyond Superman's wildest dreams will soon be one step closer to reality with the completion of a powerful X-ray camera for viewing high-energy objects in our galaxy and beyond to the farthest reaches of the universe.

"For the first time, we will be able to view the sky in X-rays almost as clearly as we can view it from the largest optical telescopes and 10 times better than any X-ray images we have had before," said Gordon Garmire, Evan Pugh professor of astronomy and astrophysics.

Garmire is the principal investigator who conceived and designed the camera, which is in its final stage of testing at the Marshall Space Flight Center in Huntsville, Ala. "It has performed flawlessly, exceeding the most optimistic goals originally set for it in 1989 when NASA accepted the proposal for its flight," Garmire said.

The camera was built under Garmire's direction at the Center for Space Research at the Massachusetts Institute of Technology.

The camera, the "AXAF Charge-coupled device Imaging Spectrometer" (ACIS), is one of two cameras sat-

ed for installation on the world's most powerful X-ray-astronomy observatory, NASA's Advanced X-ray Astrophysics Facility. It is scheduled to be launched into space on the space shuttle in late 1998. The ACIS camera will record the energy of each X-ray that it detects from the high-energy objects as a unique amount of charge, convert the charge into a signal and then send the spectral signals to scientists on Earth who will use the information to detect the presence of different elements.

"X-rays are the most useful energy band for studying high-energy phenomena associated with the most energetic objects in the universe," said Mark Bautz, a research scientist at MIT's Center for Space Research and a member of the ACIS development team. Scientists expect that the ACIS camera will reveal new information about the cycle of matter that ultimately made life on Earth possible.

The ACIS camera, when combined with the telescope's X-ray-focusing mirrors, has very high angular resolution, or sharpness of focus, which will allow it to see individual stars for the first time in regions where large numbers of stars are crowded. It also has

high spectral resolution, which will give it the ability to determine the energy of individual X-rays over a wide range of X-ray energies.

"The ACIS camera is amazingly efficient in the way it responds to X-rays," Ricker said. "It records images, photon-by-photon, in 50 X-ray colors simultaneously. In virtually no other part of the electromagnetic spectrum it is possible to do such a thing, and ACIS does so with near perfection."

Among the objects the camera is designed to see are massive black holes — 100 million to a billion times the mass of the sun — which are thought to be the power source at the heart of quasars, the most luminous known objects in the universe. The ACIS camera, because it is able to see very high-energy radiation, may be able to detect the early growth of the seeds of quasars in the early universe. In addition, the ACIS camera will determine the temperature and distribution of hot gas in galaxies and clusters of galaxies — data scientists can use not only to measure their mass but also to estimate the mass of the entire universe.

Because high-energy X-rays also can penetrate through dense clouds

of dust like those that hide in the center of the Milky Way, scientists hope the X-ray camera will be able to see clearly the heart of our own galaxy, which many astronomers suspect harbors a massive black hole. Scientists also plan to study the earliest and latest stages of a star's life and sun-like stars that could reveal what our own sun might eventually do in the later stages of its life. The ACIS camera also will be able to see more "colors" with X-rays — a much broader range of different wavelengths of energy than the human eye can see.

"If we could see in X-rays, we would see a more colorful universe with many unnamed colors that you can't imagine," Garmire said.

The camera will next be shipped to a number of testing centers and then to the observatory in Redondo Beach, Calif., where NASA's Advanced X-ray Astrophysics Facility is located. There it will be assembled, integrated and tested. In the summer of 1998, it is scheduled to be moved to the Kennedy Space Center in Florida, where it will eventually be mounted into the space shuttle in preparation for its launch.

ARTS & ENTERTAINMENT

AT PENN STATE



Batter up

Joe Thompson is Charlie Brown and Stacie Morgan is Lucy in Pennsylvania Centre Stage's production of "You're a Good Man, Charlie Brown." The play runs through June 21 at the Pavilion Theatre on the University Park campus.

Photo: Greg Grieco

Bassoon Quartet

The Penn State Bassoon Quartet will present a free concert of music for bassoon ensemble at 8 p.m. Thursday, June 12, in the Helen Eakin Eisenhower Chapel on the University Park campus. Members of the quartet are Katherine E. Jones, Matthew Schell, Melissa Etling and Daryl Durran, associate professor of music.

Piano festival

A national piano festival dedicated to the interpretational and teaching principles of Tobias Matthay, considered one the 20th century's foremost piano pedagogues, will be held at the School of Music on the University Park campus

June 17-21. The festival will include lectures, recitals, demonstrations, performances and a national competition for young pianists.

Day sessions will be held in Music Building II; evening recitals will take place in the School of Music Recital Hall, Music Building I.

On Friday, June 20, six contestants will compete in the 25th annual national Clara Wells Scholarship Auditions for a \$2,000 first prize and a \$1,500 second prize. The auditions will be held between 1:30 and 5 p.m. in the School of Music Recital Hall.

For a festival brochure and registration information, contact Carl Blake, Institute for the Arts and Humanistic Studies, at (814) 865-0495.

"You're A Good Man, Charlie Brown"

The entertaining family musical "You're a Good Man, Charlie Brown," which opened the Pennsylvania Centre Stage season on June 6 in the Pavilion Theatre on the University Park campus, runs through June 21.

Based on Charles Schulz's beloved "Peanuts" characters, "You're A Good Man, Charlie Brown" plays at 7:30 p.m. June 12-14 and 17-21 in the Pavilion Theatre. Matinees are 2 p.m. Saturday, June 21, and 3 p.m. Sunday, June 15. Prices are \$4.50 for those 15 and under, \$12 for students and \$15 for non-students.

For tickets or more information, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Penn's Woods festival

With less than a month until opening night of the 12th Annual Penn's Woods Orchestra and Chamber Music Festival, top musicians from around the world are preparing to descend upon the University Park campus to participate in Central Pennsylvania's premier festival orchestra. Led by Pu-Qi Jiang, conductor of the Penn State Philharmonic Orchestra, Music at Penn's Woods unites 65 orchestral musicians — representing more than 50 different musical institutions — for four weeks of intensive rehearsal and performances. The orchestra also features members of the School of Music faculty and local musical artists.

The festival runs from June 21-July 12, with orchestra concerts every Saturday evening and twice weekly free chamber ensemble concerts. All events are held at Eisenhower Auditorium. Tickets for orchestra concerts may be purchased at the Eisenhower Box Office or by calling (814) 865-0255. For more information, call (814) 863-1118.

The festival schedule follows:

- June 21, 7:30 p.m.: Festival Orchestra, Richard Kennedy, tenor
- June 22, 3 p.m.: Chamber Ensemble concert
- June 27, 7:30 p.m.: Chamber Ensemble concert
- June 28, 7:30 p.m.: Festival Orchestra, Mark Lusk, trombone
- June 29, 3 p.m.: Chamber Ensemble concert
- July 5, 7:30 p.m.: Festival Orchestra, Julius Karr-Bertoli, conductor
- July 6, 3 p.m.: Chamber Ensemble concert
- July 11, 7:30 p.m.: Chamber Ensemble concert
- July 12, 7:30 p.m.: Festival Orchestra, Marylene Dosse, piano

"Crafts National 31"

The School of Visual Arts Zoller Gallery and the Central Pennsylvania Festival of the Arts present "Crafts National 31," an annual juried crafts exhibition. "Crafts National 31" continues at the Zoller Gallery on the University Park campus through Sunday, July 20.

Internationally recognized ceramic artist William Daley juried this year's exhibition. Professor Emeritus and the first recipient of the Distin-



BRYCE JORDAN CENTER

Turner to rock the Jordan Center

Rock and Roll legend Tina Turner will appear at The Bryce Jordan Center at 7:30 p.m. Friday, Aug. 8. Tickets are \$38.50, \$27.50 and \$19.50 for reserved seating.

Turner's powerful voice and raw stage intensity brought her rhythm and blues fame in the 1960s. She joined Ike Turner and the Kings of Rhythm and crossed over to a top pop-rock act, and then went solo in the mid 1970s.

Turner was inducted into the Rock and Roll Hall of Fame in 1991.

Upcoming events

■ June 12-14: Preview '98 regional trade show

Thursday, 5-8 p.m.; Friday, 10 a.m. to 7 p.m.; Saturday, 10 a.m. to 7 p.m.

■ June 20: Vince Gill and Bryan White

Tickets: \$24.75 and \$19.75 for reserved seating, on sale now.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>.

guished University Professor Award from Philadelphia's University of the Arts, Daley's work has been exhibited in numerous national and international shows and is in the collections of national and international museums.

An opening reception is set for 6 to 7 p.m. Tuesday, July 8, in the gallery. This is part of an evening of receptions designed to open the annual Central Pennsylvania Festival of the Arts.

For more information, call Glenn Speirs, Zoller Gallery coordinator, at (814) 863-3352, or Robin Cort, director of visual arts for the Central Pennsylvania Festival of the Arts, at (814) 237-3682.

Life of Fred Waring

From now until Aug. 19 an exhibit titled "The Life and Times of Fred Waring" will be featured in the Reference Room of the University Archives/Penn State Room and the main lobby in Pattee Library at University Park.

Waring, a nationally known showman, Distinguished Alumnus and former University trustee, bequeathed his entire music library to Penn State when he died in 1984. Included are photographs, recordings and memorabilia from nearly 70 years' career.

The Fred Waring's America Collection is a special collection of the University Libraries housed in the Special Services Building on Fox Hill Road, State College. It is available by appointment. Call (814) 863-2911.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, June 13
 Pennsylvania Centre Stage, "You're a Good Man, Charlie Brown," 7:30 p.m., Pavilion Theatre, through June 21.
 Pennsylvania Centre Stage, "The Mousetrap," 8 p.m., Playhouse Theatre, through June 28.
 Ice Cream "Divisions": Union Fusion Jazz Band, 7 to 8 p.m., Creamery patio. Creamery ice cream 85 cents with coupon, \$1.35 without.
Monday, June 16
 Dance Aerobics "Divisions," 8 to 10 p.m., White Building gymnasium.
Tuesday, June 17
 Music at Noon: Fisher Plaza, Jazz Showcase.
 GSA Film Series Explazaganza, 9 p.m. Fisher Plaza, "Roman Holiday."
Wednesday, June 18
 HUB Lawn Films, dusk, "Four Weddings and a Funeral."
Thursday, June 19
 Music at Noon: Fisher Plaza, Mick and the Mystics.
 Ice Skating "Divisions," 8 to 11 p.m., Penn State Ice Rink.
Friday, June 20
 Ice Cream "Divisions," Tarnished Six Dixieland music, 7 to 8 p.m., Creamery patio.
Saturday, June 21
 Music at Penn's Woods Orchestra Performance, 7:30 p.m., Eisenhower Auditorium.
 GSA Family Films, 8:30 p.m., Fisher Plaza, "Babe."
Sunday, June 22
 Music at Penn's Woods, 3 p.m., Music Building Recital Hall.
Monday, June 23
 Dance Aerobics "Divisions," 8 to 10 p.m., White Building gymnasium.
Tuesday, June 24
 Music at Noon: Fisher Plaza, K-Jazz Quartet.
 GSA Film Series Explazaganza, 9 p.m. Fisher Plaza, "Funny Face."
Wednesday, June 25
 Six-week session begins.
 Comic Operas for the Movies by Albert Herring, 7:30 p.m., Music Building Recital Hall.
 Summer Opera Film Series, 7:30 p.m., Recital Hall.
 HUB Lawn Films, dusk, "Grumpier Old Men."
Thursday, June 26
 Music at Noon: Fisher Plaza, Simple Gifts.
 Ice Skating "Divisions," 8 to 11 p.m., Penn State Ice Rink.

LECTURES

Thursday, June 19
 Summer Science Seminars, Paul Babitzke on "Regulation of Gene Expression by RNA Structure and RNA-Binding Proteins," 3:30 p.m., The Nittany Lion Inn.
Monday, June 26
 Summer Science Seminars, Mark Handcock and Martina Morris on "Getting the Most Out of Your Data: A Graphical Approach to Measuring Distributional Differences," 3:30 p.m., The Nittany Lion Inn.

CONFERENCES

Monday, June 16
 4-H Ambassadors, Findlay Commons, through June 18.
Tuesday, June 17
 Bug Camp for Teachers, Headhouse 3, through June 19.
Friday, June 20
 Donald Westlake on "Landscapes of Mystery," through June 22. To register, phone (800) PSU-TODAY.
Sunday, June 22
 "African American Traditions," Penn State Conference Center and Hotel, through June 28.
Monday, June 23
 Bug Camp for Kids, Headhouse 3, through June 26.

EXHIBITS

HUB Art Alley Cases
 Ceramic exhibit by Matthew Van Horn.
 HUB Art Alley Panels
 n Asia-Southwest China exhibit featuring watercolor scrolls, through June 22.
 HUB Browsing Gallery and Formal Gallery
 Exhibit by the Central Pennsylvania Festival of the Arts, through July 18.
 HUB Hall Cases
 Exhibition by the craft center summer instructors, through June 22.
 Kern Panels
 Photos by the State College Slide Club, through June 22.
 Kern Tall Cases
 Sculpture by Howard Lawrence, through June 22.
 Palmer Museum of Art
 "Our Town: A Selection of Town Views from the Pennsylvania Prints," through Sept. 28.
 "Making History: Historical Narratives in Pennsylvania Prints," June 17 through Aug. 31.
 Zoller Gallery
 Crafts National 31, through July 20.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>



Still life

Carol Peebles, instructor for the intersection Art 20 still life class at University Park, helps student Cory Forer with the charcoal drawing he's working on.

Photo: Greg Grieco

Commonwealth College seeks associate dean

The Commonwealth College is conducting an internal search for the position of associate dean for academic programs, and requests nominations and applications for the position.

The position will report to the dean of the Commonwealth College and, working with faculty and staff of the campuses of the college, be responsible for the academic programs.

The associate dean is expected to provide leadership for market research and environmental scanning to identify the educational needs of the regions served by the college; to work with faculty and external focus groups to develop courses (credit and non-credit) and programs (degree, non-degree and certificate); and to work with campus and college curricular affairs committees for their review and approval.

The associate dean also is expected to coordinate program quality assessment and accreditation reviews, and to work with other colleges and with program advisory groups.

Candidates should have an earned doctorate, substantial experience in market-based academic pro-

gram development and experience in college/university teaching. The position requires an individual with significant leadership skills and the ability to work collaboratively with faculty, staff, administrators and community leaders throughout Pennsylvania.

The Commonwealth College, the University's largest college, is represented at 12 campus locations: Beaver, Delaware County, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Shenango, Wilkes-Barre, Worthington Scranton and York. The college has a full-time equivalent faculty and staff of 1,300 and a headcount enrollment of 14,050.

Additional information on the Commonwealth College can be found on the Web at <http://www.ces.psu.edu>.

Nominations and applications should be sent to Rachel Miller, Commonwealth College Human Resources, 431 Rider Building, 120 S. Burrows Street, University Park, Pa. 16801 (Fax: 814-865-7145). Application deadline is July 11. The Commonwealth College embraces the University's statement on affirmative action/equal opportunity. Women and minorities are encouraged to apply.

Acting director appointed for University Scholars Program

Cheeryl Achterberg, professor of nutrition, has been appointed acting director of the University Scholars Program, effective July 1. Achterberg replaces **James Rambeau**, associate professor of English and American studies, who is returning to full-time teaching and research after five years of distinguished service.

Achterberg is an award-winning teacher and researcher who has extended her expertise around the world through scholarship, service and outreach. She received, among numerous other such recognitions, Penn State's Milton S. Eisenhower Award for Distinguished Teaching in 1995. The American Dietetic Association named her the Ruth M. Leverson Award winner in Nutrition Education in 1995. She has been principal investigator on numerous competitively funded research projects and has published more than 60 peer-reviewed papers and numerous book chapters and monographs. She has been active in international service with the USAID and the UN's Food and Agriculture Organization, and has served on numerous national and international advisory boards, panels and workshops.

Achterberg has advised and supervised numerous graduate students and honors students and has taught four different honors courses in the College of Health and Human Development. She is a graduate of California Polytechnic State University at San Luis Obispo and earned her Ph.D. at Cornell University. During the 1997-98 year she has served as Fellow in the CIC Academic Leadership Program and as an Administrative Fellow in The Office of the President.



CHEERYL ACHTERBERG

Specialist joins staff of Center for Quality and Planning

Robert Barlock has joined the staff of the Center for Quality and Planning as a planning research and assessment specialist. He will provide analytical support for the unit. He previously worked in the offices of Undergraduate Education, Planning and Analysis, and Administrative Systems.

Barlock has a background in quantitative techniques and decision making and has provided analytical support for numerous administrative offices and academic units of the University, as well as for the University Faculty Senate. Most recently, he participated in analyses in support of assessment initiatives at the University, including the creation of an instructional workload model, a satisfaction survey of recent alumni and a study evaluating the effectiveness of active, collaborative, distance learning techniques.

In addition to new quality, planning and assessment initiatives he will have ongoing responsibility in support of various salary, equity and ongoing assessment studies. Barlock also is chairperson of the Patton Township Planning Commission.



ROBERT BARLOCK

Appointments

Cooperative Extension gains associate director

As part of an overall plan to engage the entire University in a broadened outreach effort, **Diane V. Brown** has been named associate director of cooperative extension and outreach. In this position, she will provide leadership for the day-to-day operation of Penn State Cooperative Extension and will work closely with the director of cooperative extension, **Theodore R. Alter**, to develop effective organizational and administrative processes.

Brown will assist the director in facilitating cooperation and collaboration across the College of Agricultural Sciences and with other colleges and outreach units within the University to develop partnerships and multidisciplinary approaches to solving problems identified through community-based needs assessment and local, state and national priorities.

Brown has a bachelor's degree in home economics education from Bridgewater College in Virginia, a master's degree in family management and community development from the University of Maryland, and a doctorate in adult education from Penn State. She has worked in extension education in four states and has experience in all program areas.

Brown began her career as a home economist in Virginia and held similar positions in Maryland and Iowa before joining Penn State in 1980. As an extension home economist in the Southeast Region for Penn State Cooperative Extension, she led programs in family resource management, energy, equipment and food economics. In 1983, Brown was named family living program leader for counties in southeastern Pennsylvania.

Brown has received key awards in her field. She was named regional director of the West Region for Penn State Cooperative Extension in 1989 and in 1995, was named associate dean in the College of Agricultural Sciences and associate director of Penn State Cooperative Extension.



DIANE V. BROWN

Communications welcomes manager of alumni relations

Kristen L. Kaminski has been named manager of alumni relations and special events for the College of Communications. In her new position, Kaminski will be responsible for administering alumni programs and developing and managing the college's external programs, including lectures, internship fairs and career seminars.

Kaminski brings to the position more than eight years of experience in development and alumni and public relations. Most recently, she served as assistant director of development and public relations for St. Joseph Medical Center in Stamford, Conn. There, she was responsible for fund raising, prospect research and events, including benefits, lecture series and educational seminars. In addition, she researched, developed and implemented a comprehensive marketing plan for the hospital's off-site Family Medicine Center. Before joining St. Joseph's, Kaminski served as a consultant for Greenwich Hospital and as business manager for the New England Center for the Headache.

Kaminski received a B.S. in health policy and administration from Penn State in 1989. As an alumna, she assisted in the re-establishment and served as president of the Southern Connecticut Chapter of the Penn State Alumni Association, which was the recipient of a 1997 Alumni Chapter Service Award. She also served as chair of the chapter's scholarship fund and continues to serve as a member of the Dance Marathon Alumni Interest Group Board of Directors.

In addition to her involvement with the Alumni Association, Kaminski has had several volunteer experiences.



KRISTEN L. KAMINSKI

Assistant professor holds Behrend's first endowed faculty fellowship

Jeffrey K. Pinto, assistant professor of management at Penn State Erie, Behrend College, has been named the Samuel A. and Elizabeth B. Breene Fellowship in Management—the college's first-ever endowed faculty fellowship.

The late Samuel Breene, a lifelong resident of Oil City, graduated from Penn State in 1937 and later served as a trustee of the University. Breene and his wife Betty created the fellowship to enable an outstanding faculty member in management to further his or her contributions in teaching, research and service.

Pinto's initial appointment is for a five-year period. The fellowship will provide support for his research including travel, materials and computer needs.

Pinto received his doctorate in organization theory from the University of Pittsburgh, and has taught at Penn State-Behrend since 1994. His most recent book, *What Made Gertie Gallot? Lessons From Project*

Failures, was written in collaboration with **O.P. Kharbanda**. The volume examines famous projects ranging from the Eurotunnel and the Ford Edsel to the Sydney Opera House and the Xerox Alto personal computer, all of which either failed or created record-breaking cost overruns. Pinto and his co-author used the examples to synthesize relevant management lessons from each case.

Pinto's other recent book, *Power and Politics in Project Management*, focuses on the judicious and appropriate use of power and political behavior in order to manage projects more effectively.

Pinto was recently named by the directors of the Project Management Institute to receive the organization's Distinguished Contribution Award. Pinto received the award in recognition of his efforts as the editor of the *Project Management Journal*; for his sustained service and outstanding contributions to the Project Management Institute; and for promoting professionalism in the field of project management.



JEFFREY K. PINTO

ICDE speaker offers possibilities for the future

By KAREN WAGNER
Public Information

Imagine top-of-the-line computers that cost no more than \$300 and are extremely simple to use—it's part of the digital future for education envisioned by **Nicholas Negroponte**, founder and director of the media laboratory at the Massachusetts Institute of Technology.

Negroponte, international best-selling author, researcher and columnist for *Wired* magazine, joined Gov. **Tom Ridge** and President **Graham B. Spanier** in addressing delegates of the 18th International Council for Distance Education World Conference on June 2 at The Bryce Jordan Center where participants discussed everything from new learning environments to the global future of education.

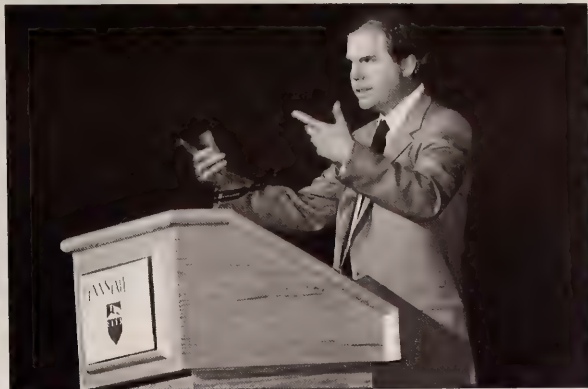
Negroponte, who also is the first executive director of the Paris-based world center for personal computation and human development, called for a re-examination of the complex software packages and interfaces that result in "PC obesity." One company will design an expensive new chip that adds computing power, while the other company quickly follows with a software package that eats up that memory. Negroponte said simplification and standardization of circuit board components and software would result in more manageable and affordable computers.

"I don't know about you, but if I had to choose between one expensive top-of-the-line computer and 25 lower-end models that perform the same basic functions, I'd choose the 25 computers in the classroom," said Negroponte, whose 281 Foundation was recently established to provide 7- to 12-year-olds in developing nations access to the digital world of computers.

While Negroponte describes himself as an avid proponent of all things digital, he acknowledges that technology has its dark side—those who are left behind—the digital homeless. Many in this group are between the ages of 30 and 45 who don't have time, or are unwilling to take the time, to learn the technology. Interestingly, it is often industry leaders in their 30s and 40s, some whom may be members of the digital homeless, who make the decisions that drive computer hardware and software development.

Young children and teenagers have been among the most enthusiastic computer users, but we often fail to recognize that senior citizens join teens and children in forming the second largest group of users. Ridge, Spanier and Negroponte agreed that in many instances, it will be up to the kids to teach their parents how to use computers.

Americans are in a very privileged position when it comes to computers, with up to 85 percent of its teenagers having access. Negroponte predicted that this would make the U.S. a different kind of com-



Looking ahead

Nicholas Negroponte, founder and director of the media laboratory at the Massachusetts Institute of Technology, made several predictions for the future of computing and the Internet during his talk before the 18th International Council for Distance Education World Conference, held recently at University Park.

Photo: Greg Grieco

petitive field. Developing and European nations have not been as fortunate. In France, for example, fewer than 5 percent of all teenagers have access to computers in the home.

Other Negroponte predictions include:

- More than \$1 trillion in commerce will be conducted over the Web by the year 2000.

- The demographics of the Internet will change drastically as developing nations get connected. English will remain the "air traffic control language" of the Internet, but it won't necessarily form its content. In fact, English content will soon be in the minority.

- Telecommunications economics are about to be turned upside down with the advent of new applications like Internet telephone. These new uses for Internet are already possible, we just haven't figured out how we're going to charge for them.

- The doubling of new Internet users each year won't cause the network to collapse as some have predicted.

- The anticipated millennium doomsday problem, where clocks in computers with two digits will be unable to interpret the year 2000, will be solved, "but at great cost," said Negroponte.

- Copyright law has gone astray. While it was originally intended to protect the author or creator, it now protects the channel of distribution—the publisher. Negroponte predicted that in the future, authors and creators will be able to determine their own economic models for the sale and distribution of their creative works.

Gov. Ridge and Spanier made some predictions of their own about the implications of information technology for the Commonwealth and for Penn State. Gov. Ridge highlighted the success of his Link-to-Learn educational technology initiative. Link-to-Learn is a \$127 million program designed to bring technology into Pennsylvania schools, libraries and communities. Every teacher in Pennsylvania will have access to its resources.

Penn State is laying the groundwork for Link-to-Learn in addition to developing its own vision for a World Campus (see story on page 1). The University will deliver several of its best undergraduate, graduate and certificate programs over the Internet.

For more information on Negroponte's 281 Foundation, visit its Web site at: <http://www.281.org/>. For more information on Link-to-Learn, visit <http://L2L.ed.psu.edu/>

Obituaries

Fred D. Houser, herds manager, College of Agricultural Sciences, from July 1, 1927, until his retirement July 1, 1973; died May 6 at the age of 88.

Suren Lalvani, associate professor of humanities and communications at Penn State Harrisburg, from Aug. 16, 1990, until his death May 3. He was 43.

Howard M. Lane, facility specialist, Office of Physical Plant, from July 24,

1963, until his retirement April 1, 1985; died April 27 at the age of 74.

Warren W. Miller, professor of chemistry, Eberly College of Science, from Feb. 1, 1950, until his retirement April 1, 1977; died April 29. He was 82.

John J. Morrow, assistant director of resident instruction and associate professor of mathematics at Penn State Mont Alto, from Sept. 1, 1959, until

his retirement July 1, 1970; died March 31 at the age of 94.

Mary Ann Nevel, residence hall worker in Housing and Food Services, from Sept. 6, 1974, until her retirement Feb. 1, 1987; died May 2. She was 70.

Paul W. Pierson, head of landscape planning and new construction, Office of Physical Plant, from July 1, 1946,

until his retirement Oct. 1, 1976; died May 3 at the age of 81.

Juanita H. Thurman, statistical clerk, College of Agricultural Sciences, from Jan. 1, 1963, until her retirement Sept. 1, 1979; died May 2. She was 83.

Mari R. Trenkle, academic support programs coordinator, Penn State Erie, Behrend College, from Nov. 29, 1985, until her death April 15. She was 48.

LECTURES

Summer Science Seminars to cover a variety of topics

Spend a summer afternoon learning about the latest research from top scientists in the Eberly College of Science. Sponsored by the Office of Summer Sessions and the College of Science, Summer Science Seminars present new research findings to graduate students, faculty and a general audience interested in science.

The free seminars are held Thursday afternoons in the Nittany Lion Inn at University Park with refreshments at 3:30 p.m. and presentations at 4 p.m.

■ **June 19 in the Penn State Room:** Paul Babbitz, assistant professor of biochemistry and molecular biology, on "Regulation of Gene Expression by RNA Structure and RNA-Binding Proteins."

■ **June 26 in the Fireside Room:** Mark Handcock, associate professor of statistics, and Martina Morris, asso-

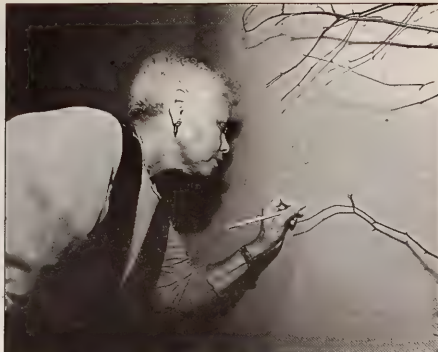
ciate professor of sociology and statistics, on "Getting the Most Out of Your Data: A Graphical Approach to Measuring Distributional Differences."

■ **July 3 in the Penn State Room:** Qi Li, assistant professor of physics, on "Science and Technology of Giant and Colossal Magnetoresistance Materials."

■ **July 17 in the Penn State Room:** Richard Ordway, assistant professor of biology, discusses "Nerve Cell Function: Lessons From Tiny Flies."

■ **July 24 in the Penn State Room:** Karl Mueller, assistant professor of chemistry, on "Spinning, Flipping and Connectivity: Solid-State NMR of Complex Solids."

■ **July 31 in the Penn State Room:** Leonid Berlyand, professor of mathematics, talks about "Percolation Theory and Disordered Materials."



Free seminar

Award-winning artist Betye Saar, shown here setting up her "Tangled Roots" exhibit at the Palmer Museum of Art in 1996, will give a lecture on a mixed-media "assemblage" called "Vision of El Cremo," part of the "African American Traditions" seminar to be presented by the Institute for the Arts and Humanistic Studies June 22-28 at University Park. The free seminar also includes a staged reading of a new play by Charles Dumas, associate professor of theatre arts; film screenings; a "mini-performance" by a jazz trio and a follow-up lecture on the roots of jazz; and a reading of works by African American post-modernist poets. For more information, contact Sue Reighard at (814) 865-0495 or e-mail lahs@psu.edu.

Photo: Greg Grieco

Methodology Workshop focus to be structural equations

Nationally renowned experts in structural equation modeling will come to University Park June 30 for the fourth annual Population Research Institute-sponsored Methodology Workshop in 101 Kern.

Kenneth Bollen, Zachary Smith professor of sociology at the University of North Carolina, a leading methodologist in the uses of structural equations, launches the one-day workshop with "An Overview of Structural Equation Models." This session, beginning at 9 a.m., draws on Bollen's book *Structural Equations With Latent Variables*. Bollen, a Fellow of the Statistical Core at the Carolina Population Center at University of North Carolina, is

best known for his cross-national research on democratic political systems and his statistical research on structural equation models.

Two afternoon sessions, from 1:30 to 4:30 p.m., present applications of this modeling approach. **Frederick Lorenz**, professor of sociology and statistics at Iowa State University, will discuss the use of structural equations for growth curve modeling. Much of Lorenz's work focuses on patterns of interactions within families as a key mediating mechanism linking economic conditions to physical, psychological and behavioral outcomes of children and adults.

D. Wayne Osgood, professor of crime, law and justice, and sociology at Penn State, rounds out the workshop with a presentation of additional uses of the method in "Structural Equation Modeling: Some Examples." He is the co-author of *Personality and Peer Influence in Juvenile Corrections*.

Registration for the Structural Equation Modeling Methodology Workshop is free for all Penn State faculty, students and staff. Supplementary reading packets, to be distributed before the workshop, are guaranteed for the first 60 registrants. For registration information, contact **Melanie Heron** at (814) 863-9571 or through e-mail at workshop@pop.psu.edu.

Promotions

Staff

Shelly K. Aina, lead applications programmer/analyst in Office of the Vice Provost for Educational Equity.

Mary Kay Amistadi, research support associate in College of Agricultural Sciences.

Brenda J. Bailey, clinical trials data specialist at The Hershey Medical Center.

Evette E. Bazemore, network coordinator at Penn State Delaware County.

Brian S. Becker, communications support coordinator in Computer and Information Systems-Telecommunications.

Gregory A. Berthold, network coordinator in Computer and Information Systems-Telecommunications.

David E. Beyerle, senior communications engineer in Computer and Information Systems-Telecommunications.

Lisa A. Bitner, staff assistant V in Housing and Food Services.

Diane A. Boldin, staff assistant V in Continuing and Distance Education.

Kelly L. Seesholtz, staff assistant VI at The Hershey Medical Center.

Stephen A. Shala, senior applications programmer/analyst in College of Agricultural Sciences.

Jennifer J. Shultz, customer service coordinator at Penn State Harrisburg, Capital College.

Judy R. Spangler, staff assistant VI in Business Services.

Mary A. Spangler, systems planning specialist III in Computer and Information Systems-Administrative Systems.

William W. Speakman, director of development in Division of Development and Alumni Relations.

Kathy M. Spicer, administration specialist in College of the Liberal Arts.

Ellen M. Springer, staff assistant VI in Business Services.

Vickie A. Stevens, staff assistant V in Continuing and Distance Education.

Rose M. Stewart, staff assistant VI in Applied Research Laboratory.

Barbara A. Struble, assistant to the Bursar in Corporate Controller's Office.

Patricia A. Tarbay, staff assistant VII in Office of Budget and Resource Analysis.

Carol S. Tyler, staff assistant V in Business Services.

Sharon A. Ward, coordinator, research studies at The Hershey Medical Center.

Christine L. Wentzel, medical review coordinator at The Hershey Medical Center.

Meredith K. Williams, coordinator, Student and Corporate Services in The Small College of Business Administration.

Karen A. Wilson, program aide in Continuing and Distance Education.

Stephen J. Wright, director, distance education programs in Continuing and Distance Education.

Technical Service

Jerry L. Jones, press operator, offset duplicator, single in Business Services.

James A. McGovern, storeroom assistant in Housing and Food Services.

Katherine A. Plymmer, residence hall utility worker in Housing and Food Services.

Michael H. Preslovich, maintenance worker-general in Housing and Food Services.

Charles A. Spicer, property protection guard in University Safety.

Russell L. Witherite, maintenance worker-general in Housing and Food Services.

Awards

Several honored in College of Engineering

The College of Engineering has announced the recipients of its 1997 faculty and staff awards. These awards are given annually to honor outstanding teaching, research, advising and service among its faculty and staff. Award recipients were nominated by their respective departments and selected by colleagues and representatives from the Penn State Engineering Society (PSES), an alumni constituent organization and sponsor of the award program.

■ Premier Teaching Award

Recognizes and honors an individual whose contributions to engineering education or to the art of teaching are of exceptional quality. This year's recipient is **Russell R. Barton**, associate professor of industrial and manufacturing engineering. Barton's success as a teacher has always been evident in student evaluations and by the number of students who select him as an adviser. Since joining Penn State in 1991, he has worked to improve the engineering curriculum by incorporating new and innovative courses at the undergraduate and graduate levels.

■ Premier Research Award

Recognizes and honors individuals whose contributions to scientific knowledge through research are exemplary and internationally acclaimed. This year two faculty received this award:

— **Philip J. Morris**, Boeing/AD Welliver professor of aerospace engineering, joined the faculty in 1977. Morris is known internationally for his contributions to the prediction of noise from supersonic jets. His research at Penn State also involves the use of parallel computers for computational aerodynamics.

— **Christopher R. Wronski**, Leonard professor of microelectronic materials and devices, electrical engineering and engineering science and mechanics. His research involves thin photovoltaics and solar cell technology based on hydrogenated amorphous silicon. He has pioneered research on solar cell development and light-induced defect generation. Wronski joined Penn State's faculty in 1987.

■ Advising, Teaching and Research Awards

The PSES Outstanding Advising Award recognizes and honors those serving as academic advisers to engineering students. **Timothy C. Ovaert**, associate professor of mechanical engineering, received this award for his outstanding contributions in this capacity.

■ Outstanding Teaching Awards

The Outstanding Teaching Awards recognize and honor outstanding engineering educators for excellence in teaching and for contributions to the art of teaching.

— **Renata S. Engel**, associate professor of engineering science and mechanics, and of engineering design and graphics; **John S. Lamancusa**, associate professor of mechanical engineering and director of The Learning Factory; and **Mario Sznajder**, assistant professor of electrical engineering, all at University Park; and **Robert Avanzato**, associate professor of engineering at Penn State Abington.

■ Outstanding Research Awards

Recipients are recognized and rewarded for accomplishments in advancing the frontiers of knowledge. These research awards honor individuals who have brought recognition to themselves, the college and Penn State this year's recipients include:

— **Kristin A. Fichtorn**, associate professor of chemical engineering with a joint appointment in the physics department; **William E. Higgins**, associate professor of electrical engineering; and **Joseph L. Rose**, Paul Morrow professor in design and manufacturing, in the Department of Engineering Science and Mechanics.

■ Service and Staff Awards

This award recognizes and honors outstanding service by staff employed in the college. Honored this year is **Glenn K. Young**, administrative assistant in the Department of Electrical Engineering.

Student activities coordinator earns Towns Award for impact on women

Janet Widoff is this year's Penn State Harrisburg Kathryn Towns Award recipient.

Presented by the Women's History Month Committee, the honor recognizes a "Penn State Harrisburg student, graduate, staff or faculty member who has demonstrated a commitment to heightening the awareness of issues and concerns having an impact on women" at the college.

The award is named for Kathryn Towns, longtime Penn State Harrisburg faculty member and now professor emerita.

Widoff serves the campus as coordinator of student activities and manager of the College Life Enrichment Offices. She is the second person presented the award.



JANET WIDOFF

Three cited as outstanding teachers

The College of Arts and Architecture has named three winners of its Outstanding Teaching Award: **Charles Garoian**, associate professor of art education; **Robert Hatten**, associate professor of music; and **Michael Fels**, assistant professor of art. In each case, students and colleagues praised the commitment and enthusiasm of the professors.

An engineering student from one of Garoian's art classes characterized him as "extremely open-minded and willing to stretch his own perception of his class and his teaching, not only with me but with all students."

Hatten's commitment is elucidated

in a letter from a colleague stating, "Music theory is a subject that cannot be taught in large lectures, but rather demands considerable interaction between student and faculty. (Hatten) not only carries a large teaching load, but spends many hours outside of class discussing problems and projects with students."

Finally, to characterize the breadth of Fels' experience and its effect, a colleague wrote, "(Fels) has the rare ability to integrate complex ideas into the very fabric of studio exercises, and the result is an unusually high degree of sophistication in student work."

Adviser lauded as outstanding mentor

Ro Nwranki, adviser in the Office of Student Aid, has received the 1997 Outstanding Mentor Award from the Center for Adult Learner Services.

The award was instituted in 1995 by Alpha Sigma Lambda, the Adult Learners of Penn State, the Graduate Student Association and Penn State University Veterans Organization.

to recognize faculty or staff who are advocates for adult learners and demonstrate such qualities as a positive attitude, sensitivity and approachability.

Faculty and staff from all Penn State locations are eligible for the award and this year, staff from six campuses were nominated.

Mont Alto recognizes two faculty

Two Penn State Mont Alto campus faculty were recently honored. They are:

Gary Webster, associate professor of anthropology, who received the Martha A. Fisher Award for Teaching Excellence. To be eligible for this teaching award, an instructor must teach at least four classes per year and be nominated by a Mont Alto campus student; and

Lauraine Hawkins, assistant professor of biology at Penn State Mont

Alto, who was honored for the second consecutive year with the Student Government Association Award for Excellence in Advising. To be eligible for this advising award, the instructor must teach at least four classes per year and be nominated by a Mont Alto campus student.

Both award nominations require the nominating student to write a two-page essay discussing their reasons for their nomination.

Mont Alto wins two marketing awards

Laura K. Frome recently accepted two national high education marketing awards on behalf of Penn State Mont Alto. Public information and special events coordinator for the campus, Frome coordinated publication of a faculty brochure used in student recruitment and recognized by the National Council for Marketing and Public Relations as well as the *Admissions Marketing Report*.

The brochure won the first place gold Paragon Award from the council and a silver award in the Admissions Marketing Report's annual Advertising Awards competition. Nearly 1,200 entries in 33 different categories were reviewed in the competition.

Frome, a 1994 Penn State graduate, joined Mont Alto's Office of University Relations staff in December 1995.

Partings

Senior student affairs director served for more than 30 years

Melvin Klein, senior director for student affairs at Penn State since 1993 and interim director of the Office of Student Unions since 1996, is retiring this month after more than 30 years at Penn State.

As senior director for student affairs, Klein was responsible for several cross-division functions in the Division of Student Programs, including coordinating and monitoring Continuous Quality Improvement initiatives, coordinating all major renovation projects and coordinating the division's annual strategic planning process.

As interim director of the student unions office, Klein focused intensively on the design planning process for

the expansion of the Hetzel Union Building (HUB) and the construction of the new Paul Robeson Cultural Center on the University Park campus. The HUB/Robeson project, which received final approval from the Board of Trustees in March, will add 95,000 square feet to the HUB's existing 154,000 square feet of floor space.

Between 1972 and 1993, Klein held several positions in the student programs division, including senior director of the division and director of the Office of Union Programs and Operations, the Office of Unions and Student Activities, the Kern Graduate Commons, student activities and religious affairs, and the office of student activities.

He also served as assistant dean of student affairs from July 1967 to August 1972, and in 1966-67 was a graduate assistant at Penn State.

Klein has won several awards and honors, including the Alpha Phi Omega Award for Distinguished Service to Penn State in 1978. He has been named an honorary inductee by the Golden Key National Honor Society, the Order of Omega National Greek Honor Society, and the Phi Eta Sigma National Honor Society.

An avid reader, Klein enjoys listening to popular music, attending theater productions (particularly musicals), gardening, taking part in summer sports and traveling with his family.

Continuing education head served 30 years

Margaret C. Hopfl, director of Continuing Education at Penn State Altoona, has retired after more than 30 years of service to the University. A lifelong student, teacher and advocate for continuing education, to many, she exemplifies the best in continuing and distance education.

Hopfl began her career in Continuing and Distance Education as a staff assistant in 1965. Soon she realized she wanted to move up in her career, but with only a high school diploma, she needed more education. She began taking night classes and eventually earned a bachelor's degree in business education. A year after she graduated, she was named a representative in Continuing Education. She also continued her education, obtaining an M.A. in adult education from Indiana University of Pennsylvania.



MARGARET C. HOPFL

personal activities.

Eventually she moved into the position of director of Continuing Education. Hopfl's career accomplishments include developing lasting programs like the National Railroad Conference, overseeing the creation of the Adult Center and new services for the growing population of adult students, and starting the Women's Leadership Institute in 1995.

She has been married to her husband, John, for 43 years. They have two adult daughters and two grandsons. Her retirement plans include finishing her dissertation for her D.Ed. in adult education, continuing to teach and lead workshops and seminars part time, and spending more time with leisure and

Nurse retires after 26 years with Hershey

Mae Rader, a nurse in the operating room at The Hershey Medical Center, has retired.

In her retirement, she has maintained the fast-paced lifestyle that came along with 26 years of service in the main operating room. Immediately after retiring she took over the kitchen duties at the Senior Citizens Center of Derry Township, joined a Tuesday quilting group and met with other medical center retirees.

She also recently became a blood donor at the medical center.

In March, Rader was selected as Employee of the Month. While working full-time she



MAE RADER

pursued her B.S.N. and obtained her Certified Nursing Operating Room certification.

Retirement also has given Rader more leisure time to spend with her family, including three sons, a daughter, three granddaughters, two 5-year-old English springers and a 6-month-old calico kitten.

Staff assistant retires after serving 32 years

Gloria Wisner McNeal, staff assistant VIII in the School of Music, has retired after 32 years of service. She began her career at Penn State in the College of Education in 1965, then moved to the College of Arts and Architecture in 1972, where she remained until her retirement in March.

McNeal plans to pursue her interests of raising Christmas trees, gardening, making Wednesday trips to Belleville and surfing the Internet.



GLORIA WISNER MCNEAL

Fayette CEO will retire

August H. Simonsen, campus executive officer at Penn State Fayette, has announced his plans to retire. Simonsen plans to retire later this year, but wanted the search for his successor to begin immediately.

Simonsen began his tenure as CEO in July 1992, coming from the McKeesport campus where he was a professor in environmental sciences and the interim campus executive officer. Working with leaders from the Campus Advisory Board, the staff and faculty, he was able to establish an associate degree program in nursing, an associate degree program in human development and family studies, an RN/bachelor of science program and the bachelor of science program in general business.

In Simonsen's five-year tenure as CEO, the campus has built three modern computer laboratories, two technology classrooms, a clinical nursing laboratory and a distance-learning outreach classroom. In addition, the construction of the Biomedical Technology Building is under way.

Several long-term employees retire

Joyce A. Getz, staff assistant VII at Penn State Altoona, Altoona College, from Oct. 1, 1974, to April 1.

Bernadine L. Hahn, staff assistant XVI, Business Services, from June 16, 1972, to April 1.

Betsy A. Hartman, staff assistant VI, Student Affairs, from April 22, 1974, to April 1.

Louis P. Kraus, advanced engineering aide, Applied Research Laboratory, from Jan. 2, 1973, to April 1.

Arthur F. Krieg, professor and chief of clinical lab pathology at The Hershey Medical Center, from July 1, 1968, to Jan. 1.

JoAnn K. Popik, staff assistant VI, College of Agricultural Sciences, from April 3, 1978, to April 1.

Daisy E. Romig, staff assistant VI, Research and Graduate School, from Oct. 8, 1979, to April 1.

Franklin R. Straub, senior patrol officer at The Hershey Medical Center, from March 3, 1980 to April 13.

Mary Tindley, staff assistant VI, Office of the President, from Dec. 3, 1979, to April 12.

Kenneth L. Wood, cutting machine operator, Business Services, from Feb. 1, 1968, to April 26.

Gladys M. Zserai, patient service aide at The Hershey Medical Center, from March 8, 1982, to March 29.

Nature at least as important as nurture in the way we learn

Even in old age, genes still influence the way we learn, study suggests.

A new study of Swedish twins who are 80 years of age or older shows that individual differences in how they acquire and process knowledge relies as much on genetic inheritance patterns as on environmental factors.

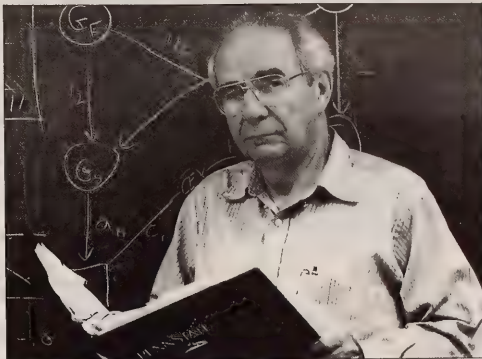
The study is the first to look at the genetic influence on many different aspects of cognition in older people, and confirms patterns that have emerged from similar studies in younger and middle-aged people. Because cognitive function plays a crucial role in determining the quality of life for older people, understanding how cognition develops as people age could lead to beneficial interventions that might slow or reverse cognitive decline.

The study was headed by National Advisory Council on Aging member **Gerald E. McClearn**, of the Center for Developmental and Health Genetics and a faculty member in the College of Health and Human Development.

"In the group of Swedes that we studied, even the effects of more than 80 years of environmental influence didn't eliminate the impact of heredity on cognitive ability," McClearn said.

A wide range of environmental variables such as geography, education, socioeconomic status, nutritional habits, occupation, disease and stress exposure might be expected to have substantial influences on cognition.

Over the course of a lifetime, twins exposed to differing environments might be expected to display wide variations in the way they learn. Yet given the cumulative impact of a lifetime of environmental disparities, this study shows that the effects of



Gerald E. McClearn, Evan Pugh professor of health and human development, is studying how people learn. His work with twins who are more than 80 years old is the cover story of the June 6 issue of Science magazine.

Photo: Greg Grieco

environment on cognition are barely equal to the effects that genetic heritability has on cognition.

The research is unique in that it looks, in people age 80 and older, at general (intellectual ability) and specific (spatial, verbal and memory) cognition, and examines in detail each of the three separate areas of specific cognition.

Previous twin studies have shown that general cognitive abilities are among the most heritable behavior traits, with heritable influence increasing from 20 percent in infancy to 60 percent in adulthood. This finding contradicts the commonly held assumption that environmental influence increases throughout the lifespan with a corresponding decrease in genetic influence.

The present study shows that the relative contributions of genetics and environment—about half and half—extends into very advanced age. Investigators in this study were able to use the Swedish Twin Registry, which has tracked 96 per-

cent of all twins in Sweden. The study used 240 sets of these twins born before the start of World War I.

They were an average age of 83 years old. To assess cognitive abilities, twins were tested by licensed nurses using tests for verbal meaning, figure logic, block design and picture memory. Analysis of combined scores of cognitive ability showed that heritability accounted for 55 percent of the individual differences in ability, a result similar to that seen in people who are middle-aged. The heritable impact on specific cognitive abilities, something little studied previously, was somewhat less than 50 percent but still highly significant.

For both general and specific cognitive abilities, identical twins, as would be expected, showed much stronger similarities than did fraternal twins. Additionally living together or sharing the same environment in later life did not account for any significant similarity or dissimilarity of envi-

ronmental impact on cognition.

"It is now becoming possible to identify specific genes which may be responsible for some of the differences in cognitive abilities," McClearn said. For example, certain forms of the ApoE gene have been associated with cognitive decline in older people, particularly in those with Alzheimer's disease.

Co-authors on this study with McClearn were **Frank Ahern**, senior research associate in the College of Health and Human Development; **Boo Johansson** and **Stig Berg**, of the Institute for Gerontology at the University College of Health Sciences in Jonkoping, Sweden; **Nancy L. Pedersen** at the Institute for Environmental Medicine of the Karolinska Institute in Stockholm, Sweden; and **Stephen A. Petril** and **Robert Plomin** of the Social, Genetic and Developmental Psychiatry Research Centre at the Institute of Psychiatry in London, England.

Caffeine not a risk factor for osteoporosis

Caffeine is not a risk factor for bone density and osteoporosis in postmenopausal women, according to a study by researchers in the College of Medicine at The Hershey Medical Center.

Principal investigator **Tom Lloyd**, professor of obstetrics and gynecology, and colleagues measured bone density of both total body and hips in 138 healthy women ages 55-70. All of the women had histories of no or minimal hormone replacement therapy and tobacco usage. Their caffeine intake was measured from their personal diet records and by chemical assessment of the caffeine in each woman's brewed caffeinated beverage. "More than 90 percent of the women's caffeine came from coffee and tea," Lloyd said.

The study, conducted in 1983-95, included similar numbers of low-, moderate- and high-caffeine consumers. Low-caffeine intake was defined as zero to two caffeinated cups of coffee per day, moderate as three to four cups per day and high as five or more cups daily. Within each group, women with low, moderate and high exercise patterns were recruited.

Even adjusting for age and weight, in addition to activity level, Lloyd said, "Caffeine intake was not associated with any bone mineral measurements."

High caffeine consumption has been both proposed and denied as a risk factor for decreased bone density and increased chance of osteoporotic fractures in postmenopausal women. In many of the studies, however, said Lloyd, factors affecting bone loss, like smoking, body weight, physical activity, calcium and vitamin intake and hormone replacement therapy, have not been adequately considered.

Lloyd believes that because the Penn State study specifically recruited healthy, postmenopausal women with known, historic caffeine consumption and because caffeine was measured by chemical analysis, the data are more definitive.

According to Lloyd, some studies have relied solely on self-reporting by women as a measurement of their caffeine intake, e.g. number of cups of coffee they consume currently versus several years ago. Those studies do not consider errors in judgment nor the amount of caffeine in each woman's average cup of coffee.

Lloyd said that other commonly suspected links to bone loss in postmenopausal women are calcium intake and low calcium intake. Bone loss can lead to osteoporosis and bone fractures. Hormone replacement therapy has been proven an effective treatment for bone preservation.

Penn Staters

Duane Duncan, senior extension agent in Cumberland County, was re-elected secretary for the National Association of County Agricultural Agents.

Evelyn Ellis, minority coordinator for the College of Arts and Architecture, was awarded the Andrew V. Kozak Fellowship from the Penn State Chapter of Phi Delta Kappa, a professional education fraternity. The Kozak Fellowship is awarded annually to doctoral students for research toward completing dissertations. With the money from the fellowship, Ellis will complete her dissertation on the effects of race and gender on doctoral studies.

Elizabeth Hanley, assistant professor of kinesiology and director of the Penn State Dance Ensemble, has been invited by the president of the International Olympic Academy to direct the dance workshop for the 37th International Session in Ancient Olympia, Greece. She also will attend the International Olympic Academy Alumni Conference in July as official representative of the U.S.A.

At the recent annual meeting of the Pennsylvania Council of Teachers of Mathematics, M. Kathleen Heid, associate professor of education, was presented with the Outstanding Contribution to Mathematics Education Award. For more than 25 years she has been involved in the research and teaching of mathematics, both at the high school and college levels. She has made more than 140 invited presentations to teachers, mathematicians and researchers in 33 states and in three foreign countries. She has served as principal or co-principal investigator on 17 funded projects and has directed a series of multi-year NSF projects.

Donald W. Leslie, associate dean for undergraduate studies in the College of Arts and Architecture, presented the keynote address, "Shared Professional Responsibility in the International Marketplace," at the Second International Symposium on Asia Pacific Architecture "The Making of Public Places," at the University of Hawaii in Honolulu.

Mary-Ellen Madigan, director of admissions and financial aid for Penn State Erie, Behrend College, has been elected to serve on the board of directors of the Alzheimer's Association.

Gregory L. Morris, associate professor of American literature at Penn State Erie, Behrend College, has been selected to participate in a National Endowment for the Humanities Summer Institute for College and University Faculty. The institute will focus on "The Environmental Imagination: Issues and Problems in American Nature Writing."



Hot slate roof!

Raymond Yoder, a worker with the David Maines & Associates Construction Co., is putting a new slate roof on Weaver Building on the University Park campus. The orange tiles that used to grace the roof were too fragile to salvage. Weaver Building is one of the structures benefiting from the University's five-year, \$476 million capital construction plan.

Photo: Greg Grieco

PENNSTATE INTERCOM

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Find us on the Web at <http://newsw.psu.edu/intercom/Home.html>

Penn State is an affirmative action, equal opportunity university.

This publication is available in alternate format.

Intercom survey respondents answer call for participation

About 1,100 individuals from a random sample pool of 2,500 responded to a recent *Intercom* readership survey. The survey, mailed in late April to readers of this publication, sought information from the University community on how well *Intercom* meets its goals of educating and informing faculty and staff members. The questionnaire was sent to a cross-section of employees at all Penn State locations.

The answers and open-ended comments supplied by the 1,100 who participated are being compiled and will be analyzed later this summer. The information will be used to not only gauge how well the *Intercom* meets reader needs, but also to guide the *Intercom* staff in its news delivery and judgment in the future.

Thanks to all those who participated. A report on our findings will appear in a later issue of *Intercom*.

We're on the Web

The *Intercom* is available online every Thursday during the academic year at URL <http://newsw.psu.edu/intercom/Home.html>. During the summer months, it is available every two weeks, beginning on its Thursday publication date.

The *Intercom*, published by the Department of Public Information, and press releases and information from the Penn State News Bureau can now be searched online. By going to <http://newsw.psu.edu/ur/> and hitting the "Search" button, readers can search *Intercom* issues dating back as far as January 1995. Simply enter a word into the query box. For a more defined search, enter more than one word.

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Going buggy

Heidi Appel, night, research associate in entomology, helps Sandy Feather of Allegheny County Cooperative Extension identify her catch by the pond at Penn State's Laurel Haven wildlife sanctuary. Both were part of the "Bug Camp for Teachers" offered by the Department of Entomology. A "Bug Camp for Kids," which began June 23, ends today. The camps promote insects as informal and classroom learning tools to make learning more fun.

Photo: Greg Grieco

Merger date for Hershey/Geisinger drawing near

By LISA M. ROSELLINI
Public Information

As July 1 draws near, the University is facing a multitude of changes in its structure. On that day, not only will The Dickinson School of Law officially become part of Penn State and the Commonwealth College be launched, but Penn State Geisinger Health System will also be born.

As announced in mid-January, the move to merge the clinical operations of The Hershey Medical Center with Geisinger Health System is being made to provide a more secure base of support for the College of Medicine. In just six days, one of the state's largest not-for-profit health care systems covering 40 counties will be created. Approximately 5,000 Hershey employees will now become employees of a new entity called the Penn State Geisinger Health System — and reporting lines, benefits and

See "Merger" on page 2

Penn State researcher discovers new promise for asthma sufferers

A new type of dry aerosol mist, designed by a Penn State/MIT-led international team, promises to have asthma sufferers worldwide breathing a little easier. The new aerosols have been shown in tests on rats to deliver medication significantly longer and more efficiently than currently used inhalation aerosols.

"With additional research, the new aerosols can lead to improved treatments for asthma, cystic fibrosis and other lung disorders," David A. Edwards, associate professor of chemical engineering and first author of the team's paper, said. "The new aerosols also possess exciting potential as non-invasive delivery systems for medicines such as insulin to treat diabetes and for interferon, a cancer treatment."

The new aerosols are detailed in the June 20 issue of *Science* magazine. Edwards' co-authors include Robert Langer, who led the MIT group involved in the study.

See "Aerosols" on page 2

Beyond 2000

Future look of University Park outlined in public meetings

By LISA M. ROSELLINI
Public Information

Envision looking northeast from Pattee Library out toward the Jordan Center, and seeing one long stretch of green. Or how about shifting the central core of campus east of Shortlidge Road, extending the academic area to University Drive, or restricting cars to the perimeter of campus. Those are just some of the options being pondered as the Campus Master Plan for University Park takes shape.

In two public meetings held June 18 — one on campus, the other off campus — planners from Johnson, Johnson and Roy Inc., an Ann Arbor, Mich., design team, outlined three possible alternatives for how the central part of campus could look in the coming years. The firm was hired to map out a rational pattern of development for University Park that reaches far into the future, but provides flexibility.

Dick Rigerink, planning team leader, said the three alternatives selected are not set in stone, but

See "Master plan" on page 3

Inside



Special Olympics

Equestrian Anna Pascucci and her horse Lady were participants in the Pennsylvania Special Olympics, held June 12-15 at University Park. For more photos, please see page 7.



Research

We all have more spare time than we think, according to a professor of leisure studies. To find out more, please see Focus on Research on page 15.

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Aerosols

About 14.6 million Americans are believed to currently suffer from asthma, a 61 percent jump since the early 1980s, according to the American Lung Association. The number of people who die annually from asthma, a condition in which even minor irritants may set off an immune response that shuts down airways, has climbed to 5,000.

Edwards said that the aerosols now most commonly available often provide only a few hours of relief. The inhalation therapy has to be repeated frequently and this chronic use, particularly in the case of bronchodilators used by asthmatics, can increase the probability of a fatal asthma attack.

Medication delivered by the new aerosols penetrates more efficiently into the lungs and stays there longer, Edwards said. When the new aerosol is approved for human use, patients can expect to use their inhalers less frequently — once every day or two versus several times per day — and to use a lower dose of the medication.

The new aerosols are composed of tiny, nearly invisible particles that are three- to 10-times larger than those used currently but weigh up to 90 percent less. The particles are, in some ways, like a whiffle ball with medication inside. When the whiffle ball-like porous particles are inhaled, the medicine slowly seeps out in the lungs and either acts directly on the lung tissue or enters the blood stream through the lung wall as inhaled oxygen does.

Edwards said the new larger, lighter particles remained longer in the lungs and were tolerated better with less inflammation in tests with rats. Large porous insulin particles, for example, stayed active

On the Web

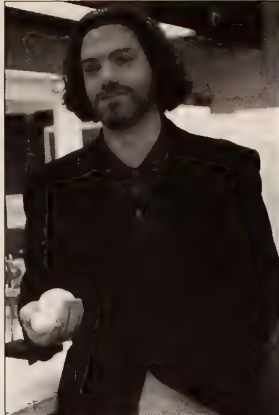
For more pictures and a sound bite of Dave Edwards discussing the implications of his work, go to the Web at <http://www.gsu.edu/~university/aerosols.html>.



Millions of asthma sufferers who currently use an inhaler several times a day could be in for change.

in the rats' lungs for 96 hours — about 15 times longer than the longest-acting aerosol currently known. Testosterone in porous particles produced higher blood hormone levels for 12 to 24 hours. Other medications, including albuterol, the leading fast-acting asthma reliever, are currently being tested in the new aerosol formulation.

Edwards had the idea for the new porous particles when he was a research associate in Langer's laboratory at MIT. Edwards and Langer began to actively research the concept after Edwards joined the Penn State faculty in 1995. The Langer-led MIT group included Jeffrey Hrkach; Giovanni Caponetti, a visiting graduate student from the University of Parma, Italy; Justin Hanes, now at Johns Hopkins University; and Noah Lotan, Technion, Israel Institute of Technology. Edwards' team at Penn State included Abdelaziz Ben-Jebria, on leave from INSERM in France; Mary Lou Eskew, research associate; Daniel Deaver, professor of reproductive physiology; and graduate student Jeffrey Mintzes.



Significant finding

Dave Edwards, associate professor of chemical engineering, helped discover new aerosols that could improve treatments for asthma, cystic fibrosis and other lung disorders.

Photo: Greg Gricio

Merger

continued from page 1

operations will change.

"We are looking forward to the many new opportunities created by this merger — opportunities that would not have been possible if each system had remained on its own," said Dr. C. McColister Everts, senior vice president for health affairs and dean of the College of Medicine, referring to the latitude the new system will have in integrating services and developing its own standards of care and methods of service. "In this time of great uncertainty in the health care arena, when operating costs continue to rise and staying competitive is vital to survival, if The Hershey Medical Center had remained isolated it would not have had the funding to maintain its academic mission."

"You don't often get the opportunity to look as closely — I mean really scrutinize — an operation, redesign it, streamline it and use the best practices to operate it," Everts explained. "We are actually building a new system, a new culture and a new way of delivering health care. This allows us to better serve our patients, be more competitive in the managed care marketplace and be a secure place of employment."

Analysts predict that by the year 2000, there will be only three to five health systems operating in Pennsylvania, according to Everts. He said Penn State Geisinger Health System plans to be one of the "major players" in the next millennium. The Geisinger Health

Plan, which will become the Penn State Geisinger Health Plan, is already the largest rural HMO in the United States.

Since the announcement of the merger, transition teams have been guiding employees through the difficult and complex task of uniting the clinical enterprises of both entities into what will become a \$1 billion operation with a combined workforce of 11,000 individuals. Despite the fact that both Hershey and Geisinger have a common mission focusing on patient care and research, and similar cultures, the task of consolidating the two operations has been daunting.

"The efforts to communicate all of the changes both externally and internally has been a significant challenge," Deborah Saline, recently appointed vice president of communications, said. "Even after the merger is effective, we will continue to work hard toward providing ongoing, two-way communication. The eight key transition teams set up to help facilitate the changeover and increase the flow of information will remain in place for as long as they are needed."

While one transition team is concentrating on ensuring that the main mission of the new system — patient care — continues without disruption, other teams are looking into merging payroll operations and personnel data systems; creating a common e-mail system; ironing out benefits packages; communicating information; negotiating, purchasing, tracking and storing the millions of dollars in medical and office supplies; and marketing the new system. In addition to the main,

overarching transition teams, smaller, more focused transition coordination subgroups are continually forming to find solutions that will help the new system function more smoothly after July 1.

Numerous meetings on certain issues, particularly human resource concerns, have been held over the last several months to give employees an opportunity to ask questions and comment on pending changes. These meetings will continue over the next several months, as transition teams continue to identify areas of improvement.

Some preliminary activities of the transition teams have uncovered more opportunities for cost reductions. In addition, improvement in services and planning is currently under way for the support of academic computing across the College of Medicine. Although a core of only seven people are actually working full time on the merger, the actual "nitty-gritty" work of merging daily operations and activities is being done by hundreds of people who still have their regular jobs to do, according to Saline.

"There are a lot of people in every area working long nights and weekends to make this happen," Saline said. "The effort to make this happen has really been tremendous."

And the job is far from over.

Although on July 1 the two systems will begin operating as one, employees and leaders of the Penn State Geisinger Health System will continue to examine the operation to determine what works best and what

needs to be improved. July 1, according to Everts, is only the beginning toward "a bold new organization focused upon the delivery of health care, while maintaining a balance of education and research."

"Over the next several years, we will be building," Everts said. "The melding of two separate cultures into one is not an easy task, but necessary for developing new ways of operating."

On the financial end, the Penn State Geisinger Health System will immediately begin taking advantage of the economies of scale, which should continue to save the system dollars. Over the next three years, the combined savings will reflect cost reductions of more than \$100 million.

From the research and education perspective, Everts said the larger patient population will aid both clinical research and basic research, and will also allow medical students and residents exposure to not only a wider variety of patients, but to the evolving health care environment. In addition, the new system is expected to provide plenty of opportunities for community service initiatives.

"July 1 will certainly be a date to remember," Everts said. "The mission of our new organization is to improve the health of the people of the Commonwealth. As a major organization in central Pennsylvania, we will continue to provide the highest quality of care in a cost-effective manner to the citizens in at least 40 counties of the Commonwealth."

Master plan

continued from page 1

rather should help continue public discussion on what the 5,100-acre campus could look like in the decades to come. All of the options presented take into account past and current patterns of growth of both Penn State and the region and the mission of the University. These discussions are just the latest phase in a long process of updating the campus's master plan, which guides the future physical development of University Park. The last major update of the master plan was in 1987.

The alternatives offered by Rigerink's team run the gamut from doubling the green space and realigning roadways to only slight alterations, which would permit demand and need to determine the look of the campus. Rigerink explained that the reason the campus continues to grow making a guiding plan necessary is because of the advances in technology, which require a consistent updating of facilities.

In addition, Penn State is increasingly becoming a draw for tourists and community participation, fueling the need to bring other perspectives into the planning process.

Under Alternative 1, which Rigerink described as "consolidation and infill," little would change from the existing pattern that has developed. Academic buildings would continue to be built in available areas, increasing the density in the academic core. The HUB lawn and the 10-acre Old Main lawn, as well as the wooded plot between Beam Business Administration Building and Business Administration II on Park Avenue known as Hart Woods, would remain "sacred open spaces," while other smaller pockets of green space would be added across campus for a 30 percent increase in green areas.

Driving through campus under Alternative 1 would be easy, perhaps too easy, Rigerink conceded since Shortidge Road would be an easy cut through from College Avenue to Park Avenue. Curtin and Pollock roads would be restricted to pedestrian traffic only.

Alternative 2 would increase green space by 50 percent, creating new areas off Shortidge Road and shifting the academic core of campus east to Bigler Road. Pollock would be closed to vehicles and would become an exclusive east to west pedestrian corridor. Shortidge Road would also be closed to autos, to form the north/south pedestrian link. Under this option, Shortidge and Allen roads would be considered the major entry points, making it more difficult to drive through the core of campus.

The most dramatic option offered, Alternative 3, would double the amount of green space; create a major pedestrian loop by closing Pollock, Bigler and Curtin roads and parts of Burrows Road to traffic; and would make driving through the core of campus impossible. Traffic would be diverted to perimeter loops and the alignment of Porter Road on the outskirts of central campus would shift to accommodate recent concerns about the

Core area of the University Park campus



Graphic by Annemarie Mountz

Need more?

More information on the master plan is available at <http://www.app.psu.edu/utp/upmapapp.htm> on the Web.

The site is not complete and is still under construction. Check in during the coming months.

HIGHLIGHTS OF THE PLANS PRESENTED

◆ ALTERNATIVE 1

- Continue with current patterns, including development of West Campus
- Upgrade and expand existing housing east of Shortidge Road
- Reduce Pollock Fields
- Maintain current parking patterns
- Maintain current "sacred open spaces."

◆ ALTERNATIVE 2

- Shift academic core east to Bigler Road; flip the science block to east of Shortidge Road
- Remove Engineering Buildings A, B, C, D, and E and restructure Hammond with a large open area in the center
- Upgrade and expand existing housing farther east of Shortidge Road
- Move commuter parking east of Porter Road
- Increase green space by 50 percent

◆ ALTERNATIVE 3

- Shift academic zones out to University Drive
- Create a connector mall from Pattee to The Bryce Jordan Center
- Demolish Hammond Building and construct new buildings that allow more open space
- Significantly increase large open spaces (by 100 percent)
- Prohibit traffic from core of campus and create major pedestrian loop using Pollock/Bigler/ Curtin/Burrows

proposed Eastern Inner Loop for the region. The Inner Loop would divert traffic around the University and State College. Current plans have the Inner Loop linking up with University Drive.

Another reason for pushing Porter Road further out, according to Rigerink, is because Alternative 3 calls for a shift in the block of academic buildings, all the way out to University Drive. If University Drive were a link in the Inner Loop, Penn State would be limited in its future ability to expand. In addition, University planners have concerns about University Drive as a connector for the proposed loop, because of potential environmental impacts to the proposed arboretum in the Big Hollow area. Alternative 3 is also the option that envisions a long, stretching pedestrian mall from Pattee to the Jordan Center. On aerial maps, only one wing of Fenske Laboratory stands in the way.

Questions and comments following the on-campus session focused on avoiding the "urban campus" feel, the relocation of certain facilities, parking concerns and the costs associated with each alternative. Rigerink said the plans do not yet have a financial component, since the planners have not gotten into that level of detail.

"These are just alternatives that allow the University to plan for growth. It's an opportunity to dream a bit," Rigerink, whose firm has done more than 140 university master plans, explained. "As you need a site, you may use a site that is mapped on a master plan ... but you may also never use it."

Three more open meetings on the Campus Master Plan are set for November, April 1998 and August 1998. On Nov. 12, the planners will return with revised plans based on the input they are currently soliciting. On April 21-23,

1998, Rigerink said final subcampus plans will be available and by August 1998, the vision for University Park in the 21st century will be mapped out.



LECTURES

Series to feature local civil rights participants

The civil rights movement has gripped America's conscience for most of this century. This ongoing and continual struggle for equality will be addressed during a two-part series in July at the Penn State Downtown Center in Harrisburg by area residents who have personal experience in the movement. Both presentations will be from noon to 1 p.m. at the Downtown Center, 234 N. Third St.

The series on the civil rights movement titled "Will the Circle Be Unbroken?" is designed to complement a public radio series of the same name currently airing on WITF-FM 89.5 on Wednesdays at 6:30 p.m. through Oct. 1. The first installment of the series on July 16 will feature a historical perspective of the movement in America from the early 1900s through the 1970s. The speaker for this discussion will be Ann Lyon, an emeritus faculty member at Harrisburg Area Community College and social activist whose father was responsible for bailing Rosa

Parks out of jail; and the facilitators will be Robert Scott, assistant professor of behavioral sciences at Penn State Harrisburg, who was personally involved in the movement with the Rev. Dr. Martin Luther King, and Mitzi Trosle, program director at WITF-FM. The July 23 session will be highlighted by a panel discussion offering perspectives on the current status of the movement in America.

Speakers include: LeGree Daniels, community leader and governor of the United States Postal Services; Homer Floyd, executive director of the Pennsylvania Human Relations Commission; Lonnie King, leader of the civil rights movement in Atlanta in the early '60s and former president of the NAACP in Atlanta; and Nick Suders, a sophomore at Indiana University of Pennsylvania.

Both presentations are free to the public. Registrations to ensure adequate seating can be made by phoning (717) 783-0433.

teachers in northwestern Pennsylvania.

Teachers participating in the course are expected to develop competence in describing the operation of different sectors of the American economy and in predicting the consequences of economic policy, especially those concerned with current changes in the business environment.

The institute, which has been administered by Duquesne University, is made possible in Erie through a grant from the Erie Community Foundation.

Institute on U.S. economy opens July 7

Americans for the Competitive Enterprise System Inc. (ACES) and Penn State Erie, Behrend College will collaborate to present the Institute on the American Economy on July 7-25.

The institute is open to 40 elementary and secondary school teachers and administrators concerned with economics, social sciences and allied subjects. This three-week course, which will be held in 43 Academic Building on the Erie campus, is designed by the School of Business to promote economic education among

International conference planned

An international conference on "Education and Technology: Asking the Right Questions" will be held Sept. 17-20 at the Penn State Conference Center Hotel at University Park. The focus of this conference (honoring the seminal work of Jacques Ellul and Ivan Illich) is an examination of the key role of educational policy in relation to the expansion of technology and its effect on personal and social life. How has education affected the growth of a technological society, and what are the benefits and costs of that growth? Conversely, in what ways is technology transforming the educational process, and what are the costs and benefits of that transformation? More than 100 papers and discussions will address these issues.

Among the invited presenters will be Neil Postman, New York University; Ivan Illich, University of Bremen and Penn State; Wilhelm H. Vanderburg, University of Toronto; Seyyed Nasr, George Washington University; Langdon Winner, Rensselaer; and Joyce Hanks, University of Scranton.

For program information, contact: Henry C. Johnson Jr., chair of the Conference Steering Committee, at (814) 865-1488 or e-mail hcj20@psu.edu. For registration information, contact Chris Dufour, conference planner, at (814) 865-5110; e-mail: Conferenceinfo@cedu.psu.edu. For a brochure, call (800) PSU-TODAY (778-8632), or visit their Web site at: <http://www.cde.psu.edu/C&I/Education&Technology/>

Rhetoric conference at University Park, July 6-9

More than 100 scholars will gather at University Park for the 15th Penn State Rhetoric and Composition Conference on July 6-9.

The conference, "Rhetorical Bodies: Toward a Material Rhetoric," will provide opportunities for scholars and teachers to develop lines of inquiry and practice.

A continuing and distance education service of the College of the Liberal Arts, the conference will feature a dozen speakers from across the country, including three plenary session speakers.

Celeste Condit, professor of speech communication at the University of Georgia, will speak on "The Need for a Material Rhetoric: Reflections on Genetic Code," at 7:30 p.m. Sunday, July 6.

Katherine Hayles, professor of English at UCLA, will discuss "Prosthetic Rhetoric and the Posthuman Body" at 8:30 a.m. Monday, July 7.

Lester Kagle, professor of English and director of the Division of Rhetoric and Composition at the

University of Texas at Austin, is scheduled to speak on "After the Essay: The Literacy of Color, Sound and Motion," at 10:45 a.m. Tuesday, July 8.

All plenary session speeches are open to the public and will be held in Ballroom C at the Nittany Lion Inn.

"This conference is designed as a working conference and will allow scholars and teachers to talk together about work in progress," Jack Selzer, professor of English and conference co-chair, said.

Selzer said the conference will use technology to disseminate the research. "All the papers are included on the Web site and accessible by password to the participants. The participants can access the site and review the works before attending the conference."

Selzer said that a book representing the best work of the participants will be published following the conference by the University of Wisconsin Press. For more information about the conference call (800) PSU-TODAY.

Free computer training to be offered in July

Education Technology Services of the Center for Academic Computing is offering free computer training seminars during July. Detailed descriptions of the following workshops can be found on the Web at <http://cac.psu.edu/training/>. Scroll down to Summer Seminars and select "July Workshops for Staff and Faculty."

■ Introduction to MS Word 95 (Version 7.0) 02044 — Tuesday, July 8, 11:16 Wagner Building, 1-4 p.m.

■ Understanding Your Computer Files 02052 — Tuesday, July 8, 11:16 Wagner Building, 9 a.m.-noon

■ Introduction to Excel 95 (Version 7.0) 02046 — Thursday, July 10, 11:16 Wagner Building, 9 a.m.-noon

■ A Demonstration of Office 95 Features 02050 — Thursday, July 10, 1:41 Computer Building, 1-3 p.m.

■ Using MS Word to Work More Efficiently: Intermediate Word 95 02045 — Friday, July 11, 11:16 Wagner Building, 1-4 p.m.; prerequisite: experience with Word 7.0.

■ Partners: The World Wide Web and Penn State 01041 — Wednesday, July 16, 14:1 Computer Building, 9-11 a.m.

■ Introduction to Access 95 (Version 7.0) 02047 — Thursday, July 17, 11:16 Wagner Building, 1-4 p.m.

■ Introduction to PowerPoint 95 (Version 7.0) 02048 — Friday, July 18, 11:16 Wagner Building, 9 a.m.-noon

■ Productivity Tips Using MS Office 95 02049 — Monday, July 21, 11:16 Wagner Building, 8-11 a.m.; prerequisite: experience with Word and Excel.

■ Migrating to Windows 95 02051 — Wednesday, July 9, 14:1 Computer Building, 9 a.m.-noon; prerequisite: previous experience with Windows 3.1.

■ Leaving EMC2 for Eudora (Eudora Light Version 1.5.4), Section 1, 02053 — Thursday, July 11, 11:16 Wagner, 9-11 a.m.; Section 2, 02054 — Monday, July 21, 11:16 Wagner, noon-2 p.m.

■ Advanced Eudora Features 02055 — Friday, July 25, 11:16 Wagner, 9-11 a.m.; prerequisites: working knowledge of Eudora.

■ Creating Your Own Web Page, Section 1, 01042 — Monday, July 7, 11:16 Wagner Building, 1-4 p.m.; (Part I); Wednesday, July 21, 11:16 Wagner, 1-4 p.m.; (Part II).

—Section 2, 01043 — Tuesday, July 22, 11:16 Wagner Building, 9 a.m.-noon, (Part I); Thursday, July 24, 11:16 Wagner Building, 9 a.m.-noon, (Part II); prerequisite: PSU Web Space Account.

To register, e-mail Teresa Beck at tab18@psu.edu or call (814) 863-4356. Registration is also available on the Web at the address listed above. Please contact Carl Howlin at cxh25@psu.edu or at (814) 863-5769 with questions.

Central Pennsylvania Festival of the Arts

July 9-13, 1997

Cooperation makes annual festival a success

By ANNEMARIE MOUNTZ
Public Information

Perhaps the most popular event to be held in central Pennsylvania each year is the Central Pennsylvania Festival of the Arts. What started in the mid-1960s as a way to revive the businesses in downtown State College that felt a severe economic pinch when students left town for the summer, has grown into an event that has taken on a life of its own.

"There is a wide mix of people who come back to see friends and visit with family during the arts festival. The University's Freshmen Testing, Counseling and Advising Program has a session during the festival and high school students considering Penn State often visit the campus during the arts festival," said Phil Walz, executive director of the Central Pennsylvania Festival of the Arts. The Penn State Alumni Association also holds its reunions during the arts festival.

This year marks the 31st year of the festival, to be held July 9-13 in State College and on the University Park campus.

In addition to a core festival staff of four, it takes more than 1,500 part-time volunteers to make the festival happen — and many of them are faculty, staff and students at the University.

"That's what's really neat about this festival," said Walz. "The bylaws require 50 percent of the board of directors to come from the University and 50 percent to come from town. That's probably the secret to why this organization has survived and succeeded over the years. There's definitely a Penn State component. Together we're trying to create a unique experience and tradition. Come back, see old friends, have a good time."

That tradition sets this festival apart from other town-gown festivals. "Because of personal relationships and reunions going on, the arts festival has many repeat attendees. I'd say 95 percent of the people who attend this festival have been here at least once before. You don't find that much repeat attendance with most festivals."

The behind-the-scenes work is shared at the coordinator level as well. Seven of the 19 festival coordinators are University employees, volunteering their time and expertise to organize various areas of the festival. Many of the other coordinators also have ties to the University.

"I thought getting involved in the arts festival would be fun to do and it helped me to give something back to the community," said Barbara J.



Artist in action

Aimo Hill of Annapolis, Md., did some painting in his sales booth along Pollock Road on the University Park campus during the early morning hours at last year's festival.

Photo: Andrea Hurley

Festival facts

■ PARKING

Parking for the arts festival will be across from Beaver Stadium. Rates are \$5 per day or \$10 for a pass good throughout the festival. Faculty/staff parking permits also will be honored.

■ SHUTTLE INFORMATION

CATA will provide free express shuttle service between the Beaver Stadium parking lot and Schlow Library on Beaver Avenue during the festival.

Wright, administrative assistant in The Smeal College of Business Administration. Wright, who has been with the University for 10 years, has been sales booth co-coordinator for eight of the last nine years.

Wright's duties extend well beyond the week of the festival. "We work with the artists to get designs for the T-shirts and anything else we sell that contains the official arts festival logo," she said.

The University holds exhibitions in conjunction with the festival as well. This year marks the 31st year for Crafts National, a juried exhibition of fine arts held in Zoller Gallery, 101 Visual Arts Building.

Images '97 in the Hetzel Union Building galleries has been a part of the festival since 1989. The exhibit features paintings, drawings, prints, photographs and sculpture created by artists from Pennsylvania and the Mid Atlantic states.

This year, after a 10-year absence, the Palmer Museum of Art will again be part of the festival. The museum will be the site of one of the festival's opening receptions on July 8 and will be host for an exhibition of works from School of Visual Arts faculty.

"We had a great opportunity to get involved in the festival this year, and we grabbed it," Jan Muhler, director of the Palmer Museum, said. "We've

been looking for ways to collaborate, but our primary problem has been scheduling exhibitions."

Muhler said that most scheduling is done years in advance, under strict guidelines.

"If you organize a show you can have more control," Muhler said. "But if you rent a show from an organization or another museum, there are set time slots and you either take it during that period or not at all."

Although the museum was not directly involved in the festival for the last several years, it tries whenever possible to have an exhibit that is appropriate to have on view during the arts festival.

"The museum has a different audience during the summer and it's a great time for us to emphasize to the community that the museum is here for them as well as for the University," Muhler said.

They've done that and more this year. Not only is the museum exhibiting two collections of prints from 19th-century Pennsylvania, but it also will hold a special faculty exhibition developed to coincide with the arts festival.

SVA20 features the works of 20 School of Visual Arts faculty members and represents the first time in 10 years that such an exhibit has appeared at the museum. While the exhibit is not co-sponsored by the arts

Festival goes high-tech

Because the Palmer Museum developed the SVA20 faculty exhibit in a relatively short period of time, there was no opportunity to publish a traditional exhibit catalog.

"We wanted to have a catalog for SVA20, but didn't know how we were going to do one given our time constraints," Jan Muhler, director of the Palmer Museum, said. "We decided to try the Web. Jerrold Maddox, professor of art in the School of Visual Arts, is making it a reality. He may be working on it right up to the last minute, but the museum's first online catalog will be up and running in time for the festival."

Although the site was not online when this issue of *Intercom* went to press, Muhler expects the site address to be <http://www.palmer.psu.edu/sva20>.

You can also visit the festival in cyberspace before you ever set foot in Centre County. To see the official Central Pennsylvania Festival of the Arts home page, go to <http://arts.festival.com/>.

festival, it definitely is the result of a collaboration between the festival and the museum, Muhler said.

"We timed it to open the same night that the other two festival exhibitions open in Zoller Gallery and the HUB. There is a genuine effort to get festival-going up as far as campus," Muhler said. "We're making the effort to not stand alone, but to be a very visible part of the overall event."

That's a difficult job. While the HUB is on Pollock Road, on the main festival route, both Zoller Gallery and the Palmer Museum are on Curtin Road, separated from the rest of the festival. The sites do have an appetizing drawing card, however. They're just up the road from the Creamery.

"We're encouraging people to come to the Palmer Museum and Zoller Gallery, and stop for a Creamery ice cream cone either before or after their visit," Muhler said.

She's working to get the word out that the Palmer Museum is part of the festival through strategic advertising and other methods.

"We're talking with some of the downtown businesses looking for ways to link us, let people know that there are other ways to get to the museum besides walking," Muhler said. "Ride the loop, rest your feet, spend time in the air-conditioned museum, then go get some Creamery ice cream. What more could you ask for?"

RESEARCH PARK UPDATE

Groundbreaking expected by this summer

Six tenants have signed pre-lease agreements for the first building in Phase 2

By BARBARA HALE
Public Information

A multi-tenant, three-story building, owned by PSRP Developers Inc., will be the first to go up in Phase 2 of Penn State's Research Park at University Park.

Six companies have already signed pre-lease agreements for space in the building, according to Arthur A. Heim, head of Penn State's Industrial Research Office and leader of park tenant development. The companies include start-up firms as well as established businesses that complement research and technology development already under way at the University.

Penn State is leasing the land for the building, which is known as 101 Innovation Boulevard, to PSRP Developers and playing a major role in finding tenants. Phase 2 will consist of 101 Innovation Boulevard and two or three additional buildings to be built to single tenants' specifications.

"We expect to break ground for the multi-tenant building by this summer," said William C. Morlok, a PSRP Developers partner.

"Our group will carry out development activities for all of Phase 2, including coordinating, administering and managing the overall construction process."

Morlok is president of Morlok Development Group of Philadelphia. Partners in PSRP Developers also include Ira Lubert, managing director for two high-technology venture capital funds and president of IL Management Inc., and Galen Dreihelb, State College businessman/real estate developer and president of G. Edwards Co.

The companies that have so far signed to occupy the multi-tenant structure include: The Drucker Co.; Lomic Inc.; Manpower Inc. of Altoona; Moulamatrix Inc.; TeleBeam Inc.; and Urish Popeck & Co., LLC/BDO Seidman Alliance. (See related story on this page for a brief description of the firms).

Construction is expected to take nine months to a year. All of the buildings in Phase 2 will be clustered to the east of the Penn State Conference Center Hotel and the other Phase 1 buildings on Innovation Boulevard.

Phase 1, now fully occupied,

About the tenants of 101 Innovation Boulevard

■ The Drucker Co.

The Drucker Co. has pre-leased space in the multi-tenant building for its marketing, accounting and R&D groups. These groups are currently in the Centre County Chamber of Business and Industry small business incubator at the Research Park.

Drucker, which moved to Centre County from Sunrise, Fla., makes centrifuges for laboratories, clinics, doctor's offices and hospitals. The company has a manufacturing unit in Philipsburg, which it hopes eventually to expand from the current eight employees to 25 when it completely moves all of its manufacturing units to the Moshannon Valley Enterprise Center.

■ Lomic Inc.

Lomic Inc. is currently in the Chamber of Business and Industry of Centre County small business incubator in the Technology Center at the Research Park.

The company will be moving all of its operations into the new multi-tenant building. Lomic develops state-of-the-art measurement software for the natural gas industry, including meter manufacturers, gas pipelines and producers. Lomic Inc. was started by Michael Adewumi, Penn State professor of petroleum and natural gas engineering.

■ Manpower Inc. of Altoona

Manpower Inc. of Altoona, ranked by its parent company as one of its fastest growing franchises, will locate a technical services office in the new multi-tenant building. The franchise, which has offices in DuBois, Johnstown and Williamsport, as well as Altoona, also plans to open a field office in Bedford this year.

The technical services office in State College will focus on providing technically trained individuals for temporary help and for permanent placement.

Manpower, which saw sales reach \$7.5 billion in 1996, is an international temporary help organization with operations in 37 countries.

■ Moulamatrix Inc.

Moulamatrix is a start-up company that provides technical services to the biotechnology and pharmaceutical

industries in drug discovery and testing.

The company is commercializing the ideas of Penn State chemistry faculty member Nicholas Winograd. Winograd is a principal in the new company along with Robert J. Hessler, a business and marketing consultant. This group has developed a method of mapping or imaging the distribution of medicines in organs, tissues or on the surface of individual cells. In addition to the imaging capability, the company will provide a mass spectrometer-based technology which will characterize drug candidates identified through a new drug discovery process named "combinatorial chemistry." Penn State owns the intellectual property for both the mapping and screening techniques and is licensing them to the new company.

■ TeleBeam Inc.

TeleBeam Inc. is a vertically integrated telecommunications company which operates wireless TV and pay phone systems and re-sells long distance products and services. It currently has 15 employees and launched its wireless TV system in State College in January 1997. Its pay phone system, which was launched four years earlier, currently includes 737 "smart" public pay telephones in eight states.

Smart Choice Long Distance Inc., a wholly-owned subsidiary of TeleBeam, provides the company's long distance products and services. The company has also established a division known as the TeleBeam Research and Development Co. (TRDC), which focuses on developing and expanding the company's wireless systems and developing next generation wireless communications systems. TRDC is conducting its R&D programs in partnership with Penn State's electrical engineering department and the University's Center for Information and Communications Technology Research. The company expects to invest more than \$1.2 million in the partnership over the next three years.

■ Urish Popeck & Co., LLC/BDO Seidman Alliance

Urish Popeck & Co., LLC, one of the largest regional accounting and business consulting firms in Western Pennsylvania, will establish its first full-service office outside the greater Pittsburgh metropolitan area in the new multi-tenant building.

In addition to audit, accounting and tax services, Urish Popeck & Co. provides expert assistance with mergers and acquisitions, business development, litigation support and technological solutions. The firm has a strong focus in healthcare, corporate finance, real estate and manufacturing industries. Professional staff number 53 in the Pittsburgh office.

The firm is the regional representative of the BDO Seidman Alliance, seventh largest accounting and consulting organization in the world.

includes the Technology Center Building; the Conference Center Hotel; and the Materials Research Institute Building. The Technology Center houses the University's Research and Technology Transfer Organization under the same roof with the Chamber of Business and Industry of Centre County office and the chamber's small business incubator.

Penn State also has signed a contract with Children's World Learning Center of Golden, Colo., to design, build and operate a child care and educational facility at the Research Park. The 13,000-square-foot facility, which is next to the Conference Center Hotel, is already under construction and is expected to begin operation in mid-August. The facility will provide

care for approximately 200 infant to school-age children, as well as opportunities for academic research.

The multi-tenant building design team includes Bohlin Cywinski Jackson, architects; EDWA, landscape architects; and Sweetland Engineering & Associates, civil engineers. Alexander Constructors of Harrisburg will build 101 Innovation Boulevard.

Special Olympics

Special athletes compete in 28th annual games

Athletes from across the state, 2,000 in total, once again converged on the University Park campus to take part in the Pennsylvania Special Olympics 1997 Summer Games.

Now in its 28th year, the four-day event offers people with mental retardation the opportunity to participate in Olympic-style sports training and competitions. To be part of the Games, athletes must train at least eight weeks in their sport to qualify.

About 2,500 volunteers from the University and local community helped make this year's games, which took place from June 12-15, happen. The Summer Games is the second largest "conference" at Penn State.



Just practicing

University lifeguard Patrick Collette, rear, swims with Mike Stienberg of Franklin County at the McCoy Natatorium during pre-game activities.

*Photos by
Greg Grieco*



On the ball

Creed Polk of Crawford County front, steals the ball from an Erie County player during the basketball playoffs.



Let'er rip

Laura Kirker, a Special Olympics participant in the shotput event, is from the Philadelphia area.

ARTS & ENTERTAINMENT

AT PENN STATE



On stage

Dennis DeYoung, left, Tommy Shaw, James "JY" Young, and Chuck Panozzo, better known as Styx, will appear at The Bryce Jordan Center July 3.

Photo: Greg Grieco

"The Mousetrap"

Pennsylvania Centre Stage's production of Agatha Christie's "The Mousetrap" will open June 13 in The Playhouse on the University Park campus and runs through June 28.

Pennsylvania Centre Stage, the summer professional theatre at Penn State, is a program of the College of Arts and Architecture.

The eerie comedy of murders, set in a snowbound guest house, is the longest running play in the history of the London stage. A classic "whodunit," "The Mousetrap" will keep the most rabid armchair sleuth in spinning suspense as the sordid plot unfolds.

Robert E. Leonard, head of the M.F.A. directing program for Penn State's School of Theatre Arts, directs the production.

The "Mousetrap" plays at 8 p.m.

June 26-28; and 2 p.m. Saturday, June 28. Tickets are \$21 for students and \$24 for non-students.

For tickets or more information, contact the Arts Ticket Center, open Monday through Friday, 8:30 a.m. to 4:30 p.m., at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

"Wall Side Story"

"Wall Side Story," an exhibition of student artwork from the architecture visual communications courses taught by Richard Alden, associate professor of architecture, will be exhibited at Manhattan Bagel, 232 West College Ave., State College, on Saturday, June 28, from 11 a.m. to 3 p.m. The exhibition will be mounted on the exterior wall of Manhattan Bagel facing the College Centre I parking lot. Manhattan Bagel will serve free hot dogs during the exhibition.

"Quilters" at Berks

Quilters, a musical play based on the oral history of women quilters who were the wives, sisters and daughters of America's pioneers, will play at Berks Festival Theatre in Reading through July 6. Berks Festival Theatre is a program of the Penn State Berks-Lehigh Valley College.

In addition to *Quilters*, a quilting exhibition will be featured in the Freyberger Gallery adjacent to the Berks Festival Theatre.

For ticket sales and information, call (800) 450-5502.

"Comic Opera" movies

Two films in the "Comic Opera at the Movies" series will be shown in July. On Wednesday, 9 p.m., Benjamin Britten's "Albert Herring" will play, and on Wednesday, July 23, Rossini's "Il Barbiere di Siviglia" will be featured.

School of Music faculty members will provide brief introductions to each film. The series is sponsored by the Penn State Office of Summer Sessions. Admission is free.

"Images '97"

"Images '97," the fine arts exhibition of the Central Pennsylvania Festival of the Arts, runs through Friday, July 18, in the formal and browsing galleries of the Hetzel Union Building on the University Park campus. Media represented in the exhibition include oil, watercolor, acrylic, pencil, prints, mixed media, photography, sculpture and ceramics.

Lois M. Johnson, chair of the fine arts department at the University of the Arts in Philadelphia, served as juror for the exhibition. An acclaimed printmaker and innovator of techniques in printmaking and the book arts, Johnson selected 76 works from the more than 400 submitted.

The formal and browsing galleries are on the first floor of the Hetzel Union Building, University Park.

In conjunction with the arts festival, the School of Visual Arts will present "Crafts National 31" at Zoller Gallery through July 20 and "SVA20" at the Palmer Museum of Art through Sept. 14.



BYRCE JORDAN CENTER

Sportsman's show

The Bryce Jordan Center will be host for the First Annual Pennsylvania Sportsman's Hunting, Fishing and Outdoor Show on March 26-29, 1998. Show hours are 5-9 p.m. Thursday; 10 a.m. to 9 p.m. Friday and Saturday; and 10 a.m. to 5 p.m. Sunday.

The Bryce Jordan Center expects to be filled with exhibitors featuring sporting equipment, fishing tackle, hunting gear, guides, outfitters, lodges and travel exhibits, taxidermists, archery equipment, sportsmen's organizations and related displays. In addition, there will be daily seminars and clinics on hunting and fishing.

Reservations for booth space are now being taken. Vendors interested in exhibiting may call (814) 863-1570 or (814) 863-5503.

Upcoming events

July 3: Styx and Pat Benatar

Tickets: \$29.50, \$24.50 and \$19.50 for reserved seating, on sale now.

July 4: The Great American Fireworks Festival, noon to midnight.

July 18: Barry Manilow

Tickets: \$39.50 and \$29.50 for reserved seating, on sale now.

Aug. 8: Tina Turner, 7:30 p.m.

Tickets: \$38.50, \$27.50 and \$19.50 for reserved seating.

Tickets can be purchased at the Bryce Jordan Ticket Center, Eisenhower Auditorium South Box Office, selected Uni-Mart ticket outlets, Commonwealth Campus ticket outlets, or by calling (814) 863-5555 locally, or toll-free at (800) 863-3336.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu/>.

Promotions

Staff

Dawn M. Boyer, lead systems analyst in Computer and Information Systems-Administrative Systems.

Michael C. Burns, systems engineer II in Computer and Information Systems-Center for Academic Computing.

Paula A. Burns, staff assistant VI in Division of Development and Alumni Relations.

Beth A. Byers, staff assistant V in Continuing and Distance Education.

Dale E. Carl, respiratory therapist at The Hershey Medical Center.

Carol W. Cobick, network coordinator in Computer and Information Systems-Telecommunications.

Michael C. Conli, director of human resources in Hospitality Services.

Peter M. Dawson, lead database programmer in Computer and Information Systems-Administrative Systems.

Melissa S. DeLong, staff assistant VII in Continuing and Distance Education.

Tiffany N. Dettler, LPN/MEDS at The Hershey Medical Center.

Ronald P. Dodson, director of special projects in Computer and Information Systems-Telecommunications.

Anna M. Doncezc, business manager in Continuing and Distance Education.

Lynn M. Dubois, assistant director, assignment office in Housing and Food Services.

Janice M. Dunn, assistant manager,

Environmental Services at The Hershey Medical Center.

Gwen R. Eckley, staff assistant VI in Continuing and Distance Education.

Barbara M. Edwards, staff assistant VI at Penn State Schuylkill.

Debra M. Ellenberger, staff assistant VI in Continuing and Distance Education.

Connie M. Embertum, staff assistant VI in Applied Research Laboratory.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Friday, June 27
Music at Penn's Woods, 3 p.m., Music Building Recital Hall.
Ice Cream "Diversions," Swinging Dixie, 7 to 8 p.m., Creamery patio.

Saturday, June 28
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium.
GSA Family Films, 8:30 p.m., Fisher Plaza, "Mary Poppins."

Sunday, June 29
Music at Penn's Woods, 3 p.m., Music Building Recital Hall.

Monday, June 30
Dance Aerobic "Diversions," 8 to 10 p.m., White Building.

Tuesday, July 1
Music at Noon: Fisher Plaza, The Deacons of Cleveland.
GSA Explazaganza, 9 p.m., Fisher Plaza, "Two for the Road."

Wednesday, July 2
HUB Lawn Films, dusk, "Space Balls."

Thursday, July 3
Music at Noon: Fisher Plaza, Triple A Blues Band.

Saturday, July 5
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium.

GSA Family Films, 8:30 p.m., Fisher Plaza, "Muppets Take Manhattan."

Sunday, July 6
Music at Penn's Woods, 3 p.m., Music Building Recital Hall.

Tuesday, July 8
Reception, "Crafts National 31," 7:30 p.m., Eisenhower Auditorium. For tickets, phone (814) 863-0255.

Wednesday, July 9
Comic Operas for the Movies, 7:30 p.m., Music Building Recital Hall. *Falstaff*.

Summer Opera Film Series, 7:30 p.m., Recital Hall.

Pennsylvania Centre Stage, "Misalliance," Pavilion Theatre, through July 26.

HUB Lawn Films, dusk, "Casper," Central Pennsylvania Festival of the Arts.

Friday, July 11
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium.

Central Pennsylvania Festival of the Arts.

Saturday, July 12
Music at Penn's Woods, 7:30 p.m., Eisenhower Auditorium.

Sunday, July 13
Central Pennsylvania Festival of the Arts.

Monday, July 14
Dance Aerobic "Diversions," 8 to 10 p.m., White Building.

LECTURES

Thursday, July 3
Qi Li on "Science and Technology of Giant and Colossal Magnetoresistance Materials," 4 p.m., The Nittany Lion Inn.

CONFERENCES

Friday, June 27
Master Gardeners, Agricultural Science and Industries Building, through June 28.

Sunday, June 29
Governor's School for the Agricultural Sciences, Agricultural Science and Industries Building, through Aug. 2.

Sunday, July 6
Penn State Rhetoric and Composition Conference, Ballroom C, The Nittany Lion Inn, through July 9.

Sunday, July 13
Food and Agricultural Science Workshop, Agricultural Science and Industries Building, through July 19.

EXHIBITS

HUB Art Alley Cases, Art Alley Panels and Hall Cases

Mixed media of Susan Struble and Alice Ritti, July 2 through July 31.

HUB Browsing Gallery and Formal Gallery
Exhibit by the Central Pennsylvania Festival of the Arts, through July 18.

HUB Hall Cases

Kern Cases
Jewelry by Evelina Francis, July 2 through July 27.

Kern Panels
Photos by John Mannion, July 2 through July 27.

Kern Tall Cases
Embroidery quilt exhibit, July 2 through July 27.

Palmer Museum of Art
"Making History: Historical Narratives in Pennsylvania Prints," through Aug. 31.

School of Visual Arts Faculty Exhibition, through Sept. 14.

"Our Town: A Selection of Town Views from the Pennsylvania Prints," through Sept. 28.

Zoller Gallery
Crafts National 31, through July 20.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://ccac.psu.edu/calendar/>



Music at noon

Students Wook Kim, left, and Sang Hee Ha enjoyed an afternoon lunch outdoors while listening to the Jazz Showcase at Fisher Plaza on the University Park campus recently. The noon-time concert was part of the Summer Music at Noon series. Concerts are held at the plaza each Tuesday and Thursday.

Photo: Greg Grieco

JUNE 27 - JULY 14

Book Shelf

Theatre professor **Mark Fearnow's** new book, *The American Stage and The Great Depression: A Cultural History of the Grotesque*, has been published by Cambridge University Press as part of its series *Cambridge Studies in American Theatre and Drama*.

The book proposes a correlation between the divided "mind" of America during the Depression and popular stage works of the '30s. Theatre works such as Jack Kirkland's comic-horror adaptation of *Tobacco Road*, Olsen and Johnson's "scream-lined revue," Hellzapoppin, and successful plays by Robert E. Sherwood, Clare Booth Luce

and S. N. Behrman are interpreted as theatrical reflections of Depression culture's sense of being trapped between a discredited past and a nightmarish future.

Fearnow analyzes the America of the '30s as an era of the "grotesque," in which the irreconcilable were forced into tense and dynamic coexistence, and by examining these works of theatre as products of particular historical circumstances, argues for a strong connection between cultural history and theatre history.

Through an introduction and five chapters, Fearnow examines several

'30s drama productions on theoretical and cultural terms. At times archival and often anecdotal, Fearnow's book provides insight into a drama once thought separate from its time, and links it to both the time and a larger American experience.

Channel Surfing: Race Talk and the Destruction of Today's Youth, a new book by **Henry A. Giroux**, Waterbury Chair professor of secondary education, points out how the barrage of media images sends a message that sells our children short. The book is published by St. Martin's Press, New York.

From images of model Kate Moss wearing an inviting pout to the movie "Dangerous Minds," which tells the story of South Los Angeles students of color who can only be saved by an angelic, blow-dried Michelle Pfeiffer, Giroux shows how media messages are condemning children to a preconceived role of alienated outcast. The book also calls for a more ethical approach to representations of children and their futures.

Giroux also is the author of *Border Crossings, Living Dangerously, Disturbing Pleasures and Fugitive Cultures*.

EMPLOYEE BENEFITS

A regular column provided by
the Office of Human Resources

Health plans must comply with new law

Recent federal legislation has imposed restrictions on the ability of health insurance plans to limit payment for treatment of pre-existing conditions.

The Health Insurance Portability and Accountability Act (HIPAA) was enacted in September 1996. While the law does not prohibit health plans from excluding or limiting coverage for pre-existing conditions, it does limit the period of exclusion or limitation to 12 months (18 months in the case of a late enrollment). All health insurance plans must comply with the new regulations with the plan year beginning after June 1. University plan years begin on Jan. 1 and both Healthpass and the Hospital/Surgical/Major Medical Plan (Plan A) will comply with the regulations beginning Jan. 1, 1998. HMO plans do not contain pre-existing condition limitations.

While this legislation will not immediately affect Healthpass or Plan A participants, the law could be of particular importance to faculty and staff members who terminate their employment at Penn State or who have family members whose eligibility for University plan coverage terminates.

The law requires that any health insurance plan that contains a pre-existing condition limitation clause must consider coverage provided under a previous health insurance plan toward meeting the pre-existing condition requirement. Consequently, all health insurance plans are required to provide terminating participants with certification of prior health insurance coverage.

Effective June 1, all participants in University health plans, including those covered under COBRA, will receive the certification of prior health insurance coverage automatically. The certification will provide the dates of coverage or, if coverage was provided for 18 months or more, will indicate that fact. The certification also will provide information for all dependents covered under the plan.

Any questions regarding these new regulations should be directed to the Employee Benefits Division at (814) 865-1473.



Practice makes perfect

Rita Fandrich of Florida Southern College, Lakeland, Fla., practiced last week for a recital given as part of the American Mathway Association's Piano Festival '97, held at University Park June 21.

Photo: Greg Grieco

Proposed federal legislation could devastate tuition benefits for employees, grad students

Editor's note: As the Intercom went to press late Monday, the House bill affecting tuition discounts for University employees had still not made it to the floor for a vote. Both House and Senate members were trying to push through legislation before the June 26 break.

By ALAN JANESCH
Public Information

Tax legislation that could have an enormous negative impact on employees and graduate assistants at colleges and universities has been kicking around the U.S. House of Representatives over the last week, awaiting approval. A Senate tax bill substantially different from the House bill — and believed friendlier to higher education — was approved by the Senate Finance Committee last week and was making its way to the Senate floor for a vote this week.

As approved by the House Ways and Means Committee June 12, the House bill includes a provision that would phase out Internal Revenue Code Section 117(d), which provides tuition discounts to qualified employees of colleges and universities, and their dependents, as well as to teaching and research assistants at the graduate level.

At Penn State, there is a 100 percent tuition discount for graduate assistants and a 75 percent discount for qualified employees and their spouses and dependents. According to one estimate, if these discounts lose their tax-exempt status, employee and graduate student taxes could amount to more than 20 percent of the value of the discount.

The committee version of the House bill also includes a provision that would end the tax exclusion for employer-provided undergraduate tuition benefits on Dec. 31. This benefit is currently allowed under Section 127 of the tax code.

The Senate bill, being amended in the Senate Finance Committee last week, does not address or eliminate the Section 117(d) benefits. It also gives a permanent extension to

the Section 127 benefits, for both undergraduate and graduate students.

"We urge all higher education institutions to look very closely at what the impact would be on their students and staff, and we urge them to act quickly," said Anne C. Gross, associate director of public policy and management programs at the National Association of College and University Business Officers (NACUBO) in Washington, D.C.

"All this is really on the fast track, and it's getting very hard to intervene in the process," she said. "The tax piece of the (federal) budget is what they're moving first and fastest on. With bills being introduced on Tuesday and then amended on Thursday, there is little time to have any input."

The House and the Senate both need to pass tax bills as part of the budget process. After the House and Senate amend or "mark up" their bills in committee, the bills go to the floor of each chamber. After the separate bills pass in the House and the Senate, they go to a House-Senate "conference committee," which resolves the differences in the bills. This year's tax bill is expected to go to conference committee after July 4.

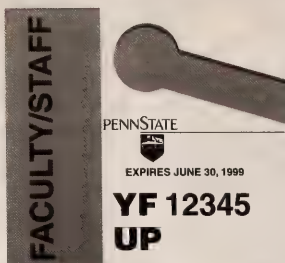
"They didn't get to the House bill as expected last week, so I suspect that some of the things that may need ironed out or may be altered will happen in conference committee, where both senators and representatives are a part of the process," she said.

The committee version of the House bill includes several other provisions relating to higher education. According to the NACUBO, one of the provisions would also affect TIAA-CREF's tax-exempt status. The House bill would remove the 1986 grandfather clause that exempts TIAA-CREF's pension business from federal tax. This adds \$300 million in federal revenue a year, and according to TIAA-CREF, would reduce the retirement income of educators by as much as 3 percent to 5 percent annually.

Maintenance costs spur parking fee increase

Earlier this spring a cost analysis of the parking system at the University Park campus was undertaken by Transportation Services. The findings reveal that the operating cost per parking space on campus exceeded the fees collected for their use. In order to continue meeting the demand for parking facilities on campus, as well as keep pace with the rising costs that affect all areas of the University, it will be necessary to institute a small increase in the current faculty/staff parking registration rates, according to Transportation Services.

Effective July 1, for regular payroll and July 6 for bi-weekly payroll, parking registration rates will increase as follows: The base rate for "open staff" parking will increase by \$1 per month, from \$15 to \$16. "Reserved" area parking will increase by \$2 per month, from \$22 to \$24. Rates for "special" permits, such as Blue 00, Blue R and HFS permits will increase by \$3 per month, from \$23 to \$26. The Red 00 permits will increase by \$4, from \$44 to \$48. Bus service will continue to provide trans-



portation for the commuter lot (Lot 44). The registration fee for this lot will increase by \$1 per month, from \$8 to \$9.

In an ongoing expansion of parking facilities this spring, Transportation Services added 200 spaces to Parking Lot Red A on the west side of campus. During the summer, the Nittany Parking Deck will undergo a major refurbishing and plans are in the works for adding an additional level to the HUB Parking Deck to meet the anticipated demand for parking once HUB expansion is completed.

Annual maintenance on the available parking (surface lots and parking decks) areas on campus includes such things as patching/resurfacing, restriping, curb and gutter/stormdrain repair, sealing parking deck joints and cracks and the repair/replacement of lights and signs. Money collected from the parking registration fees are used to cover all of these things, to improve parking facilities on campus and to support alternative modes of transportation for Penn State faculty, staff and students.

News in Brief

Study participants sought

Participants are needed for a study by Cheryl Achterberg, professor of nutrition, on the dietary patterns of individuals who have made a conscious effort to decrease the fat and increase the fiber in their diet. The study begins July 1.

To be eligible for the Patterns of Dietary Change study, participants must be between 50 and 85 years of age; have resided in the United States for the past five years; have made significant dietary changes over the past five to 10 years; be willing to fill out a questionnaire packet that will take about two hours to complete; and participate in a two-hour interview.

Participants will receive \$50 for successful completion of the study. For more information, call (814) 865-0936.

Summer blood drives

The American Red Cross, Centre Communities Chapter, will conduct four blood drives on the University Park campus this month to help rebuild depleted blood inventories. All blood types are needed, and inventories of type O blood, the universal donor, are in seriously short supply.

The blood drives will be held:

- July 1, 10 a.m. to 4 p.m., HUB Ballroom.
- July 8, 10 a.m. to 4 p.m., 101 Kern Building.
- July 9, noon to 6 p.m., Pollock Building.
- July 15, 10 a.m. to 4 p.m., Housing and Food Services Building.

To give blood, you must weigh at least 105 pounds and be in generally good health. Donors may give once every 56 days. To confirm eligibility, call the regional Red Cross at (800) 54-BLOOD. The entire donation process takes a little more than an hour, including the health check and something to eat. While walk-in donors are welcome, appointments are preferred. Appointments may be made by calling Connie Schroeder, campus coordinator, at (814) 237-2713.

Family research needs volunteers

Friends and family play a central role in the lives of individuals across adulthood. In order to maintain ties with others, people must find a way to handle problems that inevitably arise. Researchers at Penn State would like to discover how adults of different

ages manage positive and negative aspects of their relationships and are interviewing adults in their 20s, 40s, 60s, or 80s about their social ties. The interview takes approximately one to two hours, and will be scheduled at a time and place convenient for the subjects. A \$15 honorarium is offered for those who participate. For more information about participating in this study, please contact Karen L. Fingerman, assistant professor, Department of Human Development and Family Studies, at (814) 863-0241.

Paid volunteers needed

The Food Lab, 226 Henderson Bldg., is looking for non-smoking, non-dieting men and women between the ages of 20 and 45 to participate in a study. The study consists of three to four taste tests with each session lasting 10 to 15 minutes. Participants will be paid up to \$10 and will receive a coupon for a free ice cream cone at the Penn State Creamery. If interested, please contact Sarah at (814) 863-8482.

Panic and anxiety research

Are you experiencing panic attacks? Are you stressed or anxious?

Most people worry but for some, worrying is excessive, uncontrollable or overwhelming. Others experience intense panic attacks. The Stress and Anxiety Disorders Institute is conducting an ongoing research study which offers free therapy if:

- You have experienced at least four panic attacks in the past month which include, but are not limited to, symptoms of shortness of breath, rapid heartbeat, trembling and sweating;
- These symptoms reach a peak in less than 10 minutes;
- At least one attack is unexpected. At least one attack is followed by one month or more of worry about having another attack, worry about the implications of the attacks, or behavior change as a result of the attacks.

OR

- You have experienced excessive and uncontrollable anxiety or worry for at least six months.
- When worried or overly anxious you also experience: feeling keyed up or on edge, muscular tension, restlessness, difficulty concentrating, fatigue, sleep disturbance or irritability.

People (ages 18-65) included in the study will

receive free psychotherapy as well as assessments before and after treatment. A brief telephone call will help researchers make a preliminary determination of the suitability of this program for you. Strictest confidentiality is maintained. If interested, please call (814) 863-0115. Michelle Newman, a professor in adult clinical psychology, is the principal investigator on this study.

"Depressed" people needed

Most people feel depressed at some time or another in their life, but some experience major depression. A study designed to help people with this problem currently is being conducted. You may be experiencing major depression if you:

- Feel depressed most of the day, nearly every day;
- Experience a marked decrease of interest and pleasure in almost all activities;
- Feel fatigue or loss of energy most of the day; 4.
- Feel worthless or excessive guilt; and
- Feel a decreased ability to think or concentrate.

If you believe you are experiencing major depression and would like to be considered for a study being conducted by the Department of Psychology, please call Charles Hines at (814) 863-4833.

Subjects (ages 18-55) included in the study will receive 12 to 20 free sessions of individual psychotherapy, either immediately after being assessed for depression or 12 to 20 weeks later. Subjects also will be asked to complete various questionnaires during and after treatment. A brief telephone interview will help with a preliminary determination of the suitability of this treatment for you. If you cannot be included in this treatment, alternate referral suggestions will be made. Strictest confidentiality is maintained. The principal investigator on this study is Louis Castonguay, assistant professor of psychology.

Winners announced

During the Big Big Show on June 17 at the University Park campus — an annual event sponsored by General Stores that allows vendors and manufacturers to display their products — the Parking Office held a contest for counting Hershey Kisses in a jar. The winners are Niki Alters, who won first prize, and Nevin Cori, who won second prize. Congratulations.

CQI

**CONTINUOUS
QUALITY
IMPROVEMENT**

Strengthening the roster

The list of CQI teams formed at the University since the inception of quality improvement initiatives in 1991 continues to grow. A total of 232 teams have worked to improve processes over nearly six years. The newest teams include:

- The University Health Services General Medicine (GM) Department Patient Flow CQI Team was charged to study flow of patients in the General Medicine Department. The team's sponsor is Larry Dansky and the leader/facilitator is Connie Cavalier.

- The Center for Ethics and Religious Affairs Student Advisory Board Process Improvement Team is working to secure information on the relations between students and staff and to develop ideas for improvement. The leader is Ken Clarke and the facilitator is Andrea Quinby.

- The Student Aid Streamlining Customer Services Team will develop new strategies to maximize access to the student aid process. The team sponsor is Anna Griswold, the leader is Cheryl Gallagher and the team is facilitated by Mary Ellen Litzinger and Barbara Sherlock.

- The Integrating Registration, Student Aid and Bursar Processes at the Start of Each New Semester team will improve the current process of canceling a student's class schedule and aid because of the non-return of the semester bill. Sponsors are John Romano and Kenneth Babe; leaders are Anna Griswold, Roseann Sieminski and Jim Wager.

- Counseling and Psychological Services Clinical Services Database Transformational Management System Team will design a user-friendly database for compiling clinical services information. The sponsor is Dennis Heitzmann and the leader is Wil Wadlington.

- Three equipment training teams are sponsored by Steve Weaver in Housing and Food Services: the Floor Equipment Training Team (leader, Dennis Miller; facilitator, Marc McMullin); the Vulcan Convection Oven Training Team (leader, William McCloskey; facilitator, Sue Oram); and the Groen Kombi Oven Training Team (leader, Richard Crowley; facilitator, Joy Deitz).



Cool job

Rodney Campbell carves a basket out of ice for a display at the Penn State Conference Center Hotel. Campbell, who had been an employee of Scanlon when the company operated the hotel, has joined the University staff as garde-manger chef for Penn State Hospitality Services.

Photo: Greg Grieco

Faculty/Staff Alerts

New phone numbers

Effective July 1, Penn State Berks will adopt a new telephone numbering system. The campus purchased a new block of phone numbers from Bell Atlantic with the exchange of 396 and will no longer use the 320 exchange. The change was made to give the campus more phone numbers. The new number will be (610) 396-6000.

There will be a telephone referral on existing phone numbers for two months to alert callers that the telephone number has changed, followed by the new number. Callers should use the current telephone numbers until July 1.

Early deadline

Because of the July 4 holiday, the *Intercom* staff has scheduled an early deadline for the issue that follows. Also, to accommodate information being released at the July 11 Board of Trustees meeting, *Intercom* will be published on July 14, not July 10 as previously publicized. Instead of the normal Wednesday deadline for copy, Tuesday, July 1 at noon will be the cutoff time for submission of information to appear in the July 14 issue.

Anyone interested in submitting information should send it to lmr@psu.edu. The publication schedule for the remainder of the summer can be found at the *Intercom* Web site: <http://www.psu.edu/intercom/Home.html>.

Internal search under way for outreach positions

Applications are being sought for several newly created regional director positions within the recently strengthened Penn State Cooperative Extension and Outreach. The regional director is the administrative officer and program leader for one of eight designated geographic cooperative extension and outreach regions. Offices will be on a University Commonwealth campus. Regional directors serve as members of the leadership team for the College of Agricultural Sciences, provide direct oversight of cooperative extension and outreach activities within their regions and assist in providing leadership for newly formed Regional Cooperative Extension and Outreach Councils. The regional director works closely with College of Agricultural Sciences administrators, academic unit leaders, state program leaders and other University colleges and outreach units. The person in this position reports to the associate vice president for Outreach and Cooperative Extension.

The position requires an individual with significant leadership skills and the ability to work collaboratively within and outside the University setting. A doctorate in a discipline or combination of disciplines that provides adequate background for administering extension programs in agriculture and natural resources, family and consumer sciences, 4-H and youth development and economic or community development is preferred. However, candidates without a doctorate who have had a significant period of professional and administrative experiences with demonstrated excellence in program leadership will be considered.

This is an internal search and these positions are staff exempt, salary grade 30. Application can be made by including a resume, appropriate references and a letter of interest in outreach and cooperative extension. Applications will be accepted from qualified University employees until July 8, and should be sent to: Employment & Compensation Division Job #1530, Rider Building, University Park, Pa. 16801. Penn State is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.

New University-wide advertising policy

The University's advertising policy was recently changed to cover new ways of advertising brought on by rapidly changing electronic communications, such as e-mail and Web sites.

Policy AD08, which covers the purchase of display advertising in commercial print media as well as commercial messages for radio and television, and advertising in official University publications, now includes guidelines which cover advertising through electronic mediums using University facilities.

The new policy states that unless authorized by the executive director of University Relations, the placement of non-University advertisements on electronic means of communications using University facilities (e. Web sites and online publications), is specifically prohibited. Officials believe that advertising on University Web sites not only detracts from the University's image, but also jeopardizes Penn State contracts with IBM that clearly state University equipment may not be used for commercial purposes.

Anyone with questions about this policy change, may call Cynthia Hall, director of University marketing, at (814) 865-7517. The full policy on advertising may be viewed on GURU at <http://guru.sp-psu.edu/policies/ad08.html>

More campaign leaders announced

Leaders for the upcoming capital campaign, Penn State's comprehensive private fund-raising effort, have been named for three different areas within the University. These leaders will help to recruit additional campaign volunteers, identify prospective donors and serve as spokespeople for the campaign.

In the College of Arts and Architecture, **Donald W. Hamer**, Centre County entrepreneur, has been selected as chairman of that college's committee; **John Curley**, chairman, president and CEO of Gannett Co.—publisher of *USA Today*, has been named the College of Communications campaign chair; and **L.J. (Bud) Rowell Jr.**, retired chairman of the board, president and chief executive officer of Provident Mutual Life and former Penn State football player, will lead Intercollegiate Athletics' fund-raising drive in the forthcoming campaign.

College of Arts and Architecture

Hamer, who in 1969 founded State of the Art Inc., a State College-based company that develops and manufactures miniature electronic components for the avionics, space, communications, medical and military industries, has named the Renaissance Man of the Year in 1995 by the Penn State Renaissance Fund board of directors. He holds bachelor degrees from both the University of Illinois and Penn State, and earned his MBA from the University of Chicago. He currently sits on the advisory board to the Palmer Museum of Art on the University Park campus, where he donated the Donald W. Hamer Sculpture Garden. Among his many awards, he has also been named an Outstanding Engineering Alumnus by the College of Engineering, and the University of

Illinois recognized him with the Engineering College Alumni Award for Distinguished Service in Engineering.

Other honors awarded to Hamer include the Microelectronics Society's Daniel C. Hughes Award for his contributions to the advancement of hybrid microelectronics technology; the Buessum Award from Penn State for lifetime achievement in electronic materials; and the Teddy Roosevelt Conservation Award, which President George Bush presented to him in 1992.

College of Communications

Curley has been actively involved in the College of Communications since 1989, when he was appointed to the college's board of visitors—which performs an annual review of the college's teaching, research and service to its students and the media professions. In addition to serving as that board's chair for the past four years, he has supported the college through his financial generosity, as an active participant in the college's activities and as a featured speaker.

Since he first joined Gannett in 1969, Curley has served as an editor of the Rochester, N.Y., *Times-Union*; as the editor and later as publisher of *The Courier News* in Bridgewater, N.J.; as publisher of the *News-Journal* newspapers in Wilmington, Del.; and, for six years, as head of the Gannett News Service, during which time GNS won the Pulitzer Prize for Public Service. The first editor of *USA Today*, which was launched in September of 1982, Curley has been a member of Gannett's Board of Directors since 1983. He worked his way up through the company to become president of its newspaper division in 1983, president and chief operating officer in 1984, CEO in 1986, and chairman in 1989. In May of 1996, Curley was elected chairman of

the Newspaper Association of America, a non-profit organization representing a \$46 billion newspaper industry and more than 1,500 newspapers in the United States and Canada.

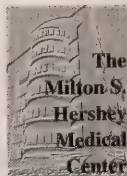
Intercollegiate Athletics

Rowell, a four-time football letterman from 1951-54, received his B.S. degree in hotel administration from Penn State in 1955. He spent two years on active duty in the United States Marine Corps, reaching the rank of captain before leaving the service. He completed the Advanced Management Program at the Harvard Business School in 1971. He is a member of the Penn State Board of Trustees and served on the National Campaign for Penn State that raised more than \$350 million. A recipient of the Athletic Alumni Award in 1978, Rowell was an Alumni Fellow in both The Mary Jean and Frank P. Smeal College of Business Administration and the College of Health and Human Development in 1987. He received a Distinguished Alumni Award in 1988.

Rowell serves on the boards of directors of the Southeast Pennsylvania Chapter of the American Red Cross; The PMA Group; the American College; and the Foundation at Paoli. He is a past chair of the major business division of the United Way of Southwestern Pennsylvania; past chairman of the American Red Cross Blood Campaign and a past co-chair of the Annual Financial Tribute Dinner of the Philadelphia Council of the Boy Scouts of America.

In October, the University named alumnus **Edward R. Hintz**, founder and president of the New York investment firm Hintz, Holman and Hecker, as chair of the overall campaign. The dollar goal of the campaign and a kick-off date will be announced later.

Hershey exceeds national rates for three-year patient survival



circulatory support and the medical condition at the time of transplantation. Both of these populations are considered high risk, adding to the complexity of Hershey's patient profile.

Also of note, the transplants performed at Hershey during the reporting period were for a higher percentage of minority patients than the national average, reflecting the diversity of the community served.

More than 200 cardiac transplants have been performed at The Hershey Medical Center.

The United Network for Organ Sharing has recently released survival statistics for cardiac transplantation programs nationwide. The three-year patient survival rate of 93.2 percent at Penn State's University Hospital at The Milton S. Hershey Medical Center exceeds the national expected survival rate of 91.7 percent.

These survival rates were not adjusted for a number of factors that are known to affect patient and graft survival, including the use of pretransplant circulatory support and the medical condition at the time of transplantation. Both of these populations are considered high risk, adding to the complexity of Hershey's patient profile.



By DOUG STANFIELD
Technology writer

Anti-spam ideas

Advertisers have discovered that e-mail is a cheap way to annoy millions more people a day than they could ever have dreamed of doing through more traditional channels. Here are some tips from Ric Ford at MacInTouch for more easily sending this junk mail to the trash:

■ A "positive" filter in your e-mail program is one option. Spam programs rarely put your e-mail address in the To or CC: fields, so you can move messages with your own address to those fields to appropriate mailboxes, leaving spam unprocessed and ready for deletion. (Mailing lists will require additional filters.)

■ Peter Lewis' scribble shareware Finger utility is helpful for tracing spammers. Do a "whois" query at <http://whois.internic.net>, listing the network number or domain name in the user field of an advertiser's message. Then, you'll know where to send a biting e-mail message of your own.

Online publications

The official 1997 *University Editorial Style Manual* is now online in PDF format for downloading and remote printing at <http://www.psu.edu/PUBS/pubs.html>. Other online publications are also available there.

Awards

The Penn State Alumni Association Web site has won a mention as one of the top college Web sites by college guide author Ken Hartman. The association site is check-full of services for alumni, and may be found at <http://www.alumni.alu.psu.edu>.

Virus hoaxes

While there are real computer virus threats out there, the reality of the potential danger is not as frightening as the panicked e-mail messages would sometimes have us believe.

"If you cannot verify a report of a computer virus yourself, do not pass it along. Instead, pass it to an expert with the resources to verify (or refute) it, and to advise you on the necessary preventive measures," said Gerry Santoro, lead research programmer in the Center for Academic Computing.

His suggestion: Buck it to him at gmsantoro@psu.edu or to the Help Desk.

To Contact Doug, send an e-mail to webbrowser@psu.edu.

Anthropology professor earns \$2 million grant

James W. Wood, professor of anthropology and research associate, Population Research Institute, has been awarded a five-year, \$2 million grant from the National Institute on Aging, National Institutes of Health. The study, titled "Biodemographic Models of Reproductive Aging," will examine menopause and reproductive health among a large cohort of U.S. women. The study will assay urine specimens for the principal hormones in regulating ovarian cycles and in signaling reproductive aging throughout the life-course. The aim is to evaluate the effects of women's menstrual, reproductive and health-related histories on the timing and character (e.g., bleeding, follicular depletion) of the menopause transition. Collaborators include Darryl J. Holman and Kathleen O'Connor, research associates, Population Research Institute; Phyllis Mansfield, professor of women's studies and health education, Penn State; and Maxine Weinstein, associate professor of sociology, Georgetown University.

Awards

Faculty, programs and publications earn kudos

A Penn State faculty member and five Continuing and Distance Education programs and publications were honored with awards from the University Continuing Education Association (UCEA) in 1997. They include:

■ **Kamal Rashid**, research associate professor in the Department of Biochemistry and Molecular Biology in the Eberly College of Science, was honored with a Faculty Service Award for his "commitment to continuing education, administrative and academic abilities, fund-raising, international experience and ability to teach students of all ages." He directs the Biotechnology and Bioprocessing Short Courses, which annually attract 150 to 200 participants. He also directs the annual Summer Symposium in Molecular Biology.

■ **The Distance Education 1996-1997 catalog** of the C&DE Department of Distance Education won two awards from UCEA: the Gold Award in the category of general catalog using three or more colors from the Division of Marketing and Promotion and a Distinguished Honors Award for best college program catalog from the Division of Independent Study. Team members included **Erin Wease**, graphic designer; **M. Scott Johnson**, photojournalist; and **Joan Scholten**, publications specialist, all with the Department of University Publications. The catalog also won a Silver Award in the 12th annual Admissions Advertising Awards competition for institutions with more than 10,000 students, and a com-

panion piece — a poster with tear-off, postage-paid reply cards — received a Merit Award.

■ **The Innovate or Die campaign** won a Silver Award in the visual identity implementation category of the Division of Marketing and Promotion. The campaign involved a comprehensive series of materials to publicize the Innovations in Engineering Education conference held last October. Design images from the Stone Age were used to show the need for creative approaches to engineering education. The pieces included a post card, stationery, poster, ad and Web site. The design also was used on the cover of *A Personal Perspective on the Art of Innovation*, a book by **Jack Matson**, professor of civil engineering, College of Engineering. **Tracey Huston**, account specialist with the C&DE Office of Marketing Communications, was the project manager for the campaign. Team members included **Kristin Owens**, conference planner, C&DE Conferences and Institutes; **Dan Goepfert**, senior program planner, C&DE Office of Program Planning; and **James Collins**, graphic designer.

■ **A publication** announcing **Martin Luther King Jr. Celebration Week** at Penn State Great Valley won a Silver Award in the flier (one or two colors) category of the Division of Marketing and Promotion. **Allison E. Jones**, director of continuing education at Great Valley, led the team that organized the series. Team members included **Patty McEnadden**, continuing education program aide; **Jill Eidenberg**,

publications specialist, and **Laura Doughty**, coordinator of alumni and community relations.

■ **The video "A Few Days at Penn State"** won a Bronze Award in the video presentation category of the Division of Marketing and Promotion. The video illustrates Penn State's conferencing facilities and services. **Geoff Conrad**, account specialist with the C&DE Office of Marketing Communications, originated the idea for the video and worked with Penn State Public Broadcasting staff members **Steve Jones**, writer/narrator, and **Patrick Mansell**, producer/director, videographer and editor.

■ **The conference CREAD '95**, a Continuum for the 21st Century, won both a national Exemplary Program Award for noncredit programming in the conferences and institutes category and a UCEA Region II Award of Excellence in Noncredit Programming. Presented in October 1995, the conference attracted participants from nine sites in the Western Hemisphere representing 29 countries. **Janet Patterson**, senior conference planner, C&DE Conferences and Institutes, led the team that developed the conference. Team members included **Armando Villarreal**, executive director, CREAD, The Inter-American Distance Education Consortium; **Judy Hall**, conference planner, Conferences and Institutes; **Catherine S. Grigor**, assistant director for production, Office of Marketing Communications; and **Debra Shafer**, program planning associate, Office of Program Planning.

Shenango announces its teacher of the year

Ruth Raycroft, assistant professor of microbiology,

has received the Penn State Shenango Teacher of the Year Award. The award was instituted at the Shenango campus in 1984, and the winner is chosen through a series of steps which include nomination and recommendation by students and a panel of members of the campus community.

Raycroft, who received her B.S. from Bucknell University and her M.S. from Penn State, has been a faculty member since 1963. During her career with Penn State, she has had many different assignments. She first began as an instructor with Penn State's Continuing Education in the Harrisburg area. After a few years, she moved to the Philadelphia region where she continued providing educational services to diploma Schools of Nursing through CE courses, in addition to teaching at several Penn State campuses. In the early '70s, Raycroft relocated to University Park where she spent the next five years in administration. She continued to teach microbiology along with coordinating and presenting seminars to health care personnel. Her last 20 years have been spent in the Pittsburgh area teaching continuing education and resident instruction for Beaver, McKeesport, New Kensington, Fayette and Shenango campuses.

On June 30, Raycroft will retire from Penn State with more than 34 years of service.



RUTH RAYCROFT

Two cited for dedication to CES athletic programs

Gaylene Doucette, athletic director and assistant professor of physical education at Penn State Shenango, and **Olana Hedrick-Shaeffer**, instructor in health and physical education at Penn State Altoona, were presented the Robert J. Scannell Award during ceremonies at University Park.

The Scannell Award, which is in its eighth year of existence, is presented to administrators, coaches or members of the faculty or staff who served the athletic, intramural and recreation programs in the Commonwealth Educational System with distinction.

Doucette began at Penn State Shenango in 1973.

Throughout her career, she coached both women's basketball and softball teams at Shenango, leading them to several Commonwealth Campus and Western Pennsylvania Collegiate Conference titles.

Hedrick-Shaeffer has been women's volleyball coach at Altoona for the past 21 years, with a record of 63-3 over the past two years. In addition, she has served as women's tennis coach and women's basketball coach.

She received her bachelor of science and master of science in physical education from West Virginia University. In 1989, she received the National Athletic Trainers Certification.

DuBois activities coordinator wins quarterly award

For 10 years **Missy Duttry** has been helping students organize their clubs, events and activities. As activities coordinator for the DuBois campus, she was recently recognized for developing a high-quality student life program and has been named Penn State of the Quarter by that campus.

Duttry joined the Penn State DuBois staff 10 years ago. In that time span, her duties have broadened to include all aspects of student life at the campus. Today, she works with students of all ages to develop activities such as club programs, athletic

and intramural competitions, and campus-wide events. She also coordinates public events. Recently, she joined the admissions recruitment team.

Duttry holds a bachelor's degree in criminology with minors in English and sociology from Indiana University of Pennsylvania.

The Penn State of the Quarter award recognizes, on a quarterly basis, a member of the DuBois campus family who has rendered particularly noteworthy service to the campus and/or the community.

Chemical engineering professor receives Fulbright

Jonathan Phillips, professor of chemical engineering, has been awarded a Fulbright grant to conduct research in the Department of Chemical Engineering at Ben-Gurion University in Israel. Phillips is an expert in heterogeneous catalysis. He is noted for a variety of discoveries, including discovering the mechanism of catalytic etching, an unexplained phenomenon for nearly a century.

Phillips is one of approximately 1,600 U.S. grantees who will travel abroad for the 1997-98 academic year under the Fulbright Program administered by the U.S. Information Agency. The Fulbright Program was established in 1946 by Congress to "increase mutual understanding between the people of the United States and the people of other countries."

Research

How do Americans use their time?

By KIMBERLEY YARNELL BIERLY
Public Information

Though they may not believe it, Americans have more free time than they did 30 years ago. A researcher has shown that Americans have almost five hours more free time per week than in the 1960s. "Most of the time they have gained is used for television viewing," said **Geoffrey Godbey**, professor of leisure studies in the College of Health and Human Development.

He and **John P. Robinson**, professor of sociology and director of the Americans' Use of Time Project at the University of Maryland, have conducted studies showing that the bigger issue is pace of life, because most of the free time comes during the week, but is in small amounts which don't allow a person to undertake more satisfying uses of leisure.

Their source of time-use information, the Americans' Use of Time Project, is the only such detailed historical data archive in the United States. Every 10 years the project has asked thousands of Americans to report their daily activities on an hour-by-hour basis in time diaries. These time diaries offer a more careful and complete account of where time goes because when the federal government measures work, they rely on people's estimates. The results of the time studies find that people are highly inaccurate in estimating their own work time.

Americans over 50 years old are the biggest gainers of free time, studies show. "People think they are working longer hours, but in reality, they mistake pace of work for length of time spent working. On average, the number of hours that people spend working has diminished," Godbey said.



Although many people feel more rushed now than ever, Geoffrey Godbey, professor of leisure studies, has found that Americans have roughly five hours more free time each week than they did in the 1960s.

Photo: Greg Grieco

On average, men and women have about the same amount of free time available to them.

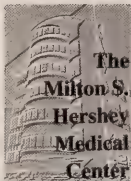
Robinson and Godbey have combined their findings in a new book, *Time For Life: The Surprising Ways Americans Use Their Time*, published by Penn State Press. They go beyond describing their controver-

sial findings to confront the numerous time paradoxes facing Americans, such as feeling more rushed and stressed when we actually have more free time; having free time in periods when it is least useful; and investing time in activities that bring us minimal enjoyment or fulfillment.

Hershey blood supplement should help trauma patients

Trauma-related injuries are the No. 1 cause of death among Americans ages 1-45. For trauma patients at The Milton S. Hershey Medical Center, a new blood supplement will be offered this summer that could greatly improve a patient's chance of survival.

"Only the most severely injured would be eligible for this study and right now 40 percent of these patients die as a result of their trauma. As an addition to all our best treatments, this new blood supplement quickly restores blood volume and increases blood pressure and the amount of oxygen in the blood. We hope we can reduce the number of deaths in this group by 25 percent," said **Maggie Shand**, a registered nurse and supervisor of clinical research for the department of surgery at the medical center.



The medical center is one of about 40 trauma centers nationwide that will be evaluating the use of the new blood supplement called Hemassist. An important part of this study involves a new guideline adopted by the Food and Drug Administration waiving consent for studies in emergency situations.

The blood supplement is made from outdated blood that, in the past, would have been thrown out. A new filtration process allows the protein or hemoglobin to be extracted virtually virus-free from the outdated blood. This means the new blood supplement does not carry any risk of contamination.

Trauma surgeons at the medical center hope to begin using the blood supplement by the July 4 weekend.



From
the
experts

Gardeners need to have proper tools for the job

Digging around in your garden is not exactly brain surgery, but like surgeons, every gardener should have the right tool for the right job.

Some may say that a shovel is just a shovel, but a scientist in the College of Agricultural Sciences said real gardeners need a spade — and about four other essential gardening implements.

J. Robert Nuss, professor of ornamental horticulture, recommends five basic tools:

- A long-handled spade. This tool is designed for digging with a straight blade set at an angle so it cuts easily into the soil.
- A spading fork. This tool has flat, square tines and is used for moving heavy soil.
- A steel rake. These large rakes are used to break up clay, smooth out soil and rake in fertilizers.
- A hoe. Hoes are used to form rows, cover seeds, move soil, cut weeds and make holes for planting seedlings.
- A hand trowel. Hand tools are best for marking rows, weeding, making furrows and moving small plants, Nuss said.

Train your plants to survive indoors

Nuss also has tips to help your indoor garden thrive.

Most plants must be carefully prepared for the light conditions inside a building before placing them in a home, he said.

"If a plant doesn't receive enough light it will begin to use its food reserves," Nuss said. "Without adequate light, plants will decline and then die."

Nuss said plants can be trained to accept lower levels of light by gradually reducing their light levels to the point that comes closest to an indoor environment. Depending on the plant, this could take up to 15 weeks.

Nuss recommends starting a plant in a sunny spot and then slowly moving it to areas of lesser light over a few weeks.

"Once the plant has stabilized, you can provide the necessary light with incandescent or fluorescent lights," he said. But indoor light sources can give off a lot of heat, so don't put the light too close to the foliage.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Portland named to USA basketball committee

Women's basketball Coach **Rene Portland** has been appointed as an NCAA representative to the USA Basketball Women's Select Team Committee for 1997 to the year 2000. As a member of the committee, Portland will help identify and select coaching staffs and players for USA Basketball's women's teams competing in the World University Games, the Junior World Championship, the Goodwill Games, the Pan American Games, the R. William Jones Cup and all zonal qualifications.

The coach of the 1996 silver medal-winning U.S. Junior World Qualifying Team, Portland was named head coach of the 1997 USA Junior National Team in January. She will lead the squad at the Junior World Championship Tournament this summer in Natal, Brazil.

Men's b-ball

The inaugural Big Ten men's basketball tournament will be staged at the 23,000-seat United Center in Chicago. The tourney is scheduled for March 5-8, 1998.

All-Americans

Senior catcher **Jared Sadlowski**, who led the Lions with 12 home runs this spring while batting .337 and driving home 46 runs, was named a first team GTE/CoSIDA Academic All-America. Sadlowski posted a 3.77 grade-point-average in management.

In addition, three Nittany Lion soccer players have been named to the National Soccer Coaches Association Scholar-Athlete All-America squad. **Sebastian Gouverneur** and **David Weil** were first team picks, while **David Kaufmann** made the second team.

For the latest information on Penn State Sports, visit the official Intercollegiate Athletics site on the Web: <http://www.psu.edu/> (Click on sports).

For the Record

In a May 29 front page story detailing the University's \$476 million capital construction plan, the amount to be spent on infrastructure upgrades for telecommunications was listed incorrectly. The correct amount to be spent over the next five years in this area is more than \$14 million, not \$11.4 million.



Hard hat area

Workmen shift utility manholes into place at the Pattee Library construction site on the University Park campus. The manholes will allow access to underground utilities.

Photo: Greg Grieco

Construction separates library wings

Pattee Library at University Park, currently undergoing major renovation and expansion work, has now become (for the time being) two buildings. The connector building that joined East Pattee to the rest of the complex was turned over to the contractor June 9. On June 10, the connector was closed to the public. It will shortly be demolished to make way for a new, larger structure on the same site. When this new connecting structure is completed, East Pattee, expanded and rechristened the Paterno Library, will be reunited with the Pattee complex.

East Pattee, which houses the Arts and Life Sciences Libraries, the General Reference section and offices, now has its own separate entrance and circulation area on the ground floor opposite north Burrows Building. Reference services will remain in East Pattee through the summer, but will be relocated to Central Pattee beginning in the fall semester.

In Central Pattee, LIAS terminals and the information desk have moved to Room 105, across from the main circulation desk. The former LIAS Catalog Room to the right of the main entrance will temporarily house the dean of libraries and human resources offices. There are wheelchair-accessible doors at the entrance to East Pattee and at the entrance to West Pattee, which serves the West and Central wings.

The library expansion project is on track for completion by the scheduled 1999 date. At no time is the library expected to close due to construction, nor will any of its collections be rendered inaccessible.

For up-to-the-minute information on the expansion project, the University Libraries maintains a construction Web page at <http://www.libraries.psu.edu/pubinfo/construction/>.

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**Art action**

Students from the HUB Arts & Crafts Center take part in drawing lessons outside of the Creamery on the University Park campus. The next art session, which runs for a two-week period, begins July 21. For more information on the classes — which include painting, drawing, pottery and more — call the HUB at 863-0229.

Photo: Greg Grieco

Tuition hike lowest in decades; differential tuition plan adopted

Penn State's tuition increase this fall will be the lowest in decades for most students. Penn State has expanded existing differential tuition rates to reflect more closely the cost of a student's education. The policy keeps the 1997-98 base tuition increase to 3.7 percent for more than 55 percent of its students — the lowest general tuition increase since 1968.

Meeting at Penn State Berks, the Board of Trustees on July 11 approved differential tuition rates at the University Park campus and other campus locations for lower- and upper-division undergraduate students, graduate students and for resident and non-resident students. It also increased and expanded tuition surcharges for high-cost programs.

"Most fundamentally, the change we are implementing this year recognizes the higher costs associated with teaching upper-division students — students who have completed 60 or more course credits," said President **Graham B. Spanier**. "The in-state tuition increase for lower division students at all Penn State locations is less than \$100 per semester or 3.7 percent."

The tuition increase will be slightly higher for upper-division students as the first year of a three-year phase-in of differential tuition. In addition, tuition rates for Pennsylvania resident students in the new colleges at Abington, Altoona and Berks/Lehigh Valley will be brought up to the Uni-

See "Tuition" on page 2

Sloan Foundation gives \$1.3 million to World Campus

By ALAN JANESCH
Public Information

The Alfred P. Sloan Foundation has awarded a \$1.3 million grant to Penn State to help the University launch its World Campus — a University-wide initiative with no walls, where learning is accomplished via the Internet and other new information technologies.

To date, the World Campus is on the cutting edge of a growing distance education movement. As envisioned by University leaders, it will be a distinctive outreach campus of the University and will offer a broad spectrum of educational activities to the global community beyond the existing Penn State system.

The grant is one of the largest awards this year in the foundation's "Asynchronous Learning Networks" program, which supports the use of technology to extend educational access to adult learners. ALN is the foundation's term for the use of online computer networks to provide any, any

See "Sloan grant" on page 3

Congress to discuss taxability of tuition benefit

Editor's note: As the *Intercom* went to press, the conference committee expected to debate these tax bills had not been named. July 11 was the date set for naming committee members.

By ALAN JANESCH and LISA ROSELLINI
Public Information

The taxability of the tuition reduction benefit offered to many employees of higher education institutions across the nation will soon be the topic of debate by Congress.

Late last month, the House of Representatives passed a bill that could have a major negative impact on college and university employees taking classes with the help of tuition reduction programs — especially graduate research and teaching assistants. The proposed legislation from the House of Representatives imposes a tax on tuition remission given

See "Debate" on page 3

Inside

**From the Docket**

The Board of Trustees took action on a number of items during its recent meeting at Penn State Berks. For information on everything from the University's operating budget to new programs, turn to pages 4-7.

**Not a relative of yours**

New DNA evidence from a team of researchers, including Penn State's Mark Stoenking, offers proof that Neandertals were not our ancestors. See page 23 for more details on these new findings.

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GLAD you asked

To submit a question for this column, please send e-mail to the address listed below. Submissions must include a contact name and telephone number so that *Intercom* can verify the source. Requests for anonymity will be honored.

Q: Why does Penn State not provide in each building a private area with a chair and an electrical outlet for breastfeeding moms to express milk while they are at work? Not everyone has access to a private office with a door that can be locked to assure privacy.

— New mom at
University Park

A: As I understand it, space assignment is greatly influenced by the administrative area that occupies it. Possibly staff have not been made aware of the need. However, since such a location may not need to be made available in each building all of the time, an alternative might be to make a quiet office available on a regular schedule to accommodate need. For new or renovated space this is an excellent suggestion and I will share it with the appropriate staff.

— Billie S. Willits
Assistant Vice President for Human Resources

Q: Although the University budget is available to the University community, it is my understanding that the Athletic Department budget is not. Why is this and exactly what is the relationship of the Athletic Department to the rest of the University?

— Fiscally conscious at
University Park

A: Penn State's budget, which is available on the World Wide Web at www.psu.edu/dept/budget, includes the entire athletic budget. For many years, the University provided a copy of the budget in paper form at all libraries in the Penn State system, but this spring it was able to place the budget on the Web for the first time. Improvements are anticipated in the Web version in the years ahead.

Another good source of information about athletic income and expenditures is the report the University files annually as part of the Equity in Athletics Disclosure Act. This document provides broad information about income and expenses for men's and women's sports.

The Athletic Department is an auxiliary unit which is subject to University oversight. All of its budgeting and accounting operations are handled within the University system. The Director of Athletics has a reporting line directly to the president.

The Penn State Athletic Department is entirely self-supporting, funding its ambitious program of 29 varsity sports, as well as a large club sport and intramural program, from revenues generated, principally by receipts from football and men's basketball and donor contributions. No tax or tuition dollars are used to support the athletic program.

— Timothy M. Curley
Director of Athletics



Comparing notes

Students like Mark Kmason, a junior majoring in chemical engineering, and Stacy Mullenhour, a senior wildlife and forestry major, discuss a recent assignment from their technical writing class on the University Park campus.

Photo: Greg Grieco

Tuition

continued from page 1

versity Park, Erie, Harrisburg and Hershey level over several years.

Nearly 40,000 students or 55 percent of the student population will have a tuition increase of 3.7 percent or less; about 13,000 students or 17.6 percent will have an increase between 3.8 percent and 4.5 percent; about 19,000 students or just over 26 percent will have an increase between 4.6 percent and 5.5 percent; and the increase for just 1 percent or 830 students will be 5.6 percent or higher.

Undergraduate Level

■ Undergraduate tuition charges per semester for the 1997-98 academic year for in-state associate and lower-division students:

—\$2,816 at University Park, Erie, Harrisburg, Great Valley and Hershey, an increase of \$99 over last year's tuition per semester.

—\$2,741 at Altoona, Abington and Berks campuses, an increase of \$110.

—\$2,727 at Lehigh Valley, Schuylkill and the 12 campuses of the Commonwealth College, an increase of \$96.

■ For in-state upper-division students with a minimum of 60 credits the costs are:

—\$2,866 at University Park,

Erie, Harrisburg, Great Valley and Hershey, an increase of \$149 over last year's tuition per semester.

—\$2,791 at Altoona, Abington, Berks, Lehigh Valley and Schuylkill campuses, an increase of \$160.

—\$2,768 the Commonwealth College campuses, an increase of \$137.

■ Out-of-state lower division undergraduates will pay \$6,103 per semester, an increase of \$216 at University Park, Great Valley and Hershey; \$5,887 with no increase at Erie and Harrisburg; \$4,267 a semester at Altoona, Abington and Berks, an increase of \$178; and \$4,239 a semester at Lehigh Valley, Schuylkill and the Commonwealth College, an increase of \$150.

■ Out-of-state upper division undergraduates will pay \$6,153 or an increase of \$266 at University Park, Great Valley and Hershey; \$5,937 or an increase of \$50 at Erie and Harrisburg; \$4,317 or an increase of \$228 at Altoona, Abington, Berks, Lehigh Valley and Schuylkill; and \$4,280 or an increase of \$191 at the Commonwealth College campuses.

Graduate Level

■ Most in-state graduate students will pay \$3,151 or an

increase of \$112 at University Park, Erie, Harrisburg and Hershey, although MBA students will pay \$3,318 or an increase of \$279. Out-of-state MBA graduate students will pay \$6,657 while those in other programs will pay \$6,490.

The surcharge for upper-division students in engineering and related fields at University Park is \$225 per semester. Phasing in a similar fee for students in science, the 1997-98 surcharge in science is \$75. The surcharge for nursing is \$250 per semester.

There will be no change in the student activity fee of \$25, but the computer fee for all students will increase from \$70 a semester to \$75 which will make \$606,000 available to expand student access to technology to expand student access to technology.

"Recognizing the high costs associated with some programs, we are also extending tuition surcharges to science and nursing. Surcharges have been in existence at Penn State for some time for upper-division and graduate students in engineering and engineering technology, earth and mineral sciences, architecture and landscape architecture," Spanier said. "We feel this is an appropriate approach to support the special laboratory and equipment needs of students in science and the high cost or required clinical experiences in nursing."

Debate

continued from page 1

to students and college employees (*Intercom*, June 26). If adopted by the full Congress, faculty, staff and students (including graduate students) who receive a tuition reduction would, for the first time, be required to pay federal income taxes on the cash value of the waiver. The tuition reduction benefit is currently allowed under the tax code.

A letter from the president of the nation's umbrella higher education association urging faculty, staff and students to write to Congress over the possible taxation of the tuition reduction benefit has been sent to more than 3,000 college and university presidents and chancellors.

In addition, President Graham B. Spanier has sent a note to all members of the Pennsylvania Congressional delegation, asking them to support the continued tax deductibility of tuition discounts for graduate students, and staff and their dependents.

The letter from Stanley O. Ikenberry, president of the American Council on Education recommends that university presidents communicate more widely with their staff, faculty and students regarding the pending tax issues. Ikenberry encourages members of the campus community to fax their comments to any member of Congress, since the plans have been fast-tracked in order to finish work on them before the August session. Six presidential higher education associations have endorsed the letter.

In the waning weeks of June, both the House and the Senate passed separate versions of expansive tax bills aimed at helping to balance the federal budget and cut taxes. On June 30, President Clinton also proposed a revised tax plan modifying his previous higher education proposals. Both the Senate's and Clinton's tax plans are friendlier to higher education and do not phase out the tax provision for tuition reduction benefits.

Both the Senate and House bills do include more than \$30 billion in a variety of education-related tax incentives and the presi-

The Pennsylvania Delegation

Congressional members:

Rep. William J. Coyne
Fax: (202) 225-1844

Rep. Phil English
Fax: (202) 225-3103

Rep. John E. Peterson
Fax: (202) 225-5796

Sen. Rick Santorum
Fax: (202) 228-0604

Sen. Arlen Specter
Fax: (202) 228-1229

dent's plan contains \$45 billion for education-related provisions. However, the House bill not only includes the detrimental provision for taxing the tuition benefit, but also includes a provision to remove the 1986 grandfather clause that exempts TIAA-CREF's pension business from federal tax. This adds \$300 million in federal revenue a year, and according to TIAA-CREF, would reduce the retirement income of educators by as much as 3 percent to 5 percent annually. This provision is not in the Senate bill.

The Council of Graduate Schools, the National Association of Graduate-Professional Students, the Association of American Universities and members of the Big Ten, among others, have been working to push for support of the Senate plan (S. 949).

"The House bill (H.R. 2014) runs so counter to every education initiative," said Rodney Erickson, dean of Penn State's Graduate School. "The removal of the tax deductibility of tuition discounts to teaching and research assistants at the graduate level, would be absolutely devastating for graduate education."

In his letter to Congress, Spanier seeks support for the Senate plan, saying that the House provisions are "problematic." Referring to the potential loss of the tax-exempt status of the discount, Spanier said, "This would be particularly devastating to graduate students engaged as teaching and research assistants who

■ On the Web

For more information on the House and Senate bills, or to check on updates to the legislation, visit the Web site of the National Association of College and University Business Officers at <http://www.nacubo.org> or the U.S. Senate at <http://www.senate.gov> or the House at <http://www.house.gov>.

would find their income reduced to the point that graduate school would no longer be affordable."

Roughly three-quarters of Penn State's tuition reduction grants are used by Penn State staff and their dependents and about one-quarter by faculty and their dependents. Penn State believes that its tuition reduction program is a cost-effective way of helping its employees do their jobs better and of recruiting high-quality faculty and staff.

At Penn State, there is a 100 percent tuition discount for graduate assistants and a 75 percent discount for qualified employees and their spouses and dependents. According to one estimate, if these discounts lose their tax-exempt status, employee and graduate student taxes could amount to more than 20 percent of the value of the discount.

The bills passed by both the House and Senate will now go to a joint conference committee, which resolves the differences in the bills. Members of the conference committee were expected to be named July 11. Final committee action on the bills could be taken in late July or early August.

The sections of the tax code the House bill would eliminate are sections 117 and 127.

Anthony Wagner, director of governmental relations for Penn State, said University employees concerned about the issues should write to any member of the Pennsylvania delegation (see box) to express their views as a private citizen. Employees should not write on Penn State letterhead.

"Voices need to be heard on this particular issue that is of critical importance to Penn State and other institutions," Wagner said.



Be our guest

Shelley Leonard, an undergraduate student in education, sets the tables at the Nittany Lion Inn for a luncheon for conference attendees. The Nittany Lion Inn on the University Park campus is the site of about 7,000 conferences per year.

Photo: Greg Grieco

Sloan grant

continued from page 1

where access to learning.

"We decided to give significant support to this University-wide initiative because of Penn State's historical commitment to serving the off-campus learner and the vision and commitment of the president and academic leadership," said Frank Mayadas, foundation program officer.

This grant is one of a select few Sloan is making to major universities which will demonstrate how ALN can be scaled up for large enrollments. The foundation, based in New York City, is a philanthropic non-profit institution that last year alone awarded \$53 million in grants to organizations and institutions for projects in areas covering technology, science, education and selected national issues.

Penn State's approach to the World Campus is to work with academic units throughout the University to:

- convert existing distance education programs to the World Campus environment and develop new courses where demand is high;

- build and support the World Campus's "technological platform" — the computer network needed to deliver World Campus courses; and

- conduct ongoing evaluations, which will not only assess how the World Campus is doing but also ensure that innovations developed for the World Campus can be adopted by the rest of the University.

James Ryan, Penn State's vice president for outreach and cooperative extension, said the way to meet the increasing demand for education and training "is not to build more physical campuses, but to create a new approach to education that effectively uses technology."

Penn State expects to have a core set of Penn State programs available through the World Campus by early 1998. By 2002, more than 30 certificate, degree programs and continuing professional education modules — involving more than 300 individual courses — will be available through the World Campus.

The \$1.3 million grant award represents a continuation of an existing relationship between Penn State and the Sloan Foundation. Earlier, using foundation grants, Penn State developed an ALN that includes a tutoring system for engineers studying for their professional engineering certification and graduate acoustics certification course being developed for an on-demand ALN. A five-course series, it is delivered via CD-ROMs especially created for the acoustics program, Web postings, Internet conferencing, books and e-mail and will be a part of the initial World Campus offering.

When Spanier announced the World Campus initiative in his 1996 State of the University address, he said that "advances in technology are allowing us to expand distance education as a way of dealing with a set of emerging social and economic issues.

From the Trustees Docket

Architects named, building projects approved

By KAREN I. WAGNER
Public Information

The Board of Trustees approved the appointment of architects for an alumni center and a child care facility at University Park, in addition to giving the go-ahead to Penn State Worthington Scranton for a classroom/conference center and Penn State Harrisburg for a science and technology building expansion.

The existing University House building will become the alumni center and additional facilities will be constructed for staff offices, meeting rooms and recognition of outstanding alumni. The center will serve as a gathering point for returning alumni, an information center, a starting point for campus tours and location for special events. Linda O'Gwynn Architects of Philadelphia has been selected to design the \$7 million project. Although Penn State has the largest dues-paying alumni association in the world with more than 140,000 members, it's one of the few major universities that has no dedicated center.

The alumni center will be financed entirely by private funds. Penn State alumni Edward R. and Helen Skade Hintz pledged \$5 million to the University earlier this spring, part of which will go toward the new center.

The board also approved the appointment of the architectural firm of Kieran, Timberlake & Harris of Philadelphia to design a new central campus child care facility. The building will accommodate approximately 150 children and will help alleviate the existing demand for child care.

The new building will supplement the child care facility currently under construction at the Penn State Research Park. Last June, President Graham B. Spanier approved the University Child Care Action Plan that reinforced the University's commitment to providing access to quality child care for faculty, staff and students and made recommendations for both facilities.

Penn State Harrisburg, Capital College, will be the beneficiary of a \$1.2 million, 8,820-square-foot addition to its existing science and technology building. The board-approved project will provide pilot research labs, offices and a multimedia classroom. The addition is being constructed with funding from the Pennsylvania Department of Environmental Protection, which will share in the use of the pilot labs for research.

The Whitaker Foundation, AMP Foundation, GPU Energy and other corporate sponsors also are helping to fund the project.

Penn State Worthington Scranton won board support for its plans to construct a 9,100-square-foot classroom-conference center to support its continu-



Now and later

University House, above, will be expanded and transformed into the University's new alumni center, as seen in the conceptual model shown to the right.

Photos: Greg Grieco

ing and general education programs.

In other business, the board approved University plans to acquire property at several locations, including:

- a Council Crest Colony property to the east of interstate 81 and route 93, Hazleton, which contains 18.7 acres of woodland, for \$250,000;

- the Hawbecker property at Fox Hill Road, Benner Township, adjacent to the University Park Airport, which contains 203.5 acres of farmland, for \$1.7 million;

- the Kline property at 1687 Barn's Lane, adjacent to the University Park Airport, which contains five acres and a one-story, 2,524-square-foot home, for \$325,000; and

- the Frantz property at 1725 Barn's Lane, adja-



cent to the University Park Airport, which contains slightly more than one acre and a two-story, 2,561-square-foot home, for \$202,875.

Consistent with Federal Aviation Administration requirements and with funding provided by the FAA, the Kline and Frantz properties are being acquired due to their location in relation to the proposed flight plan of a new runway for the University Park Airport.

University received a record \$94.9 million in private gifts

Penn State received gifts totaling \$94.9 million from alumni and friends during the fiscal year ending June 30, a 14 percent increase over gift totals from the previous year. The number of donors also increased to nearly 109,000, up from 106,900 in 1995-96.

This is the seventh consecutive year that private giving to the University has increased.

"These gifts will significantly strengthen the quality of our academic programs," said President Graham B.

Spanier. "Our donors have designated their support for a variety of areas that have a critical need for more funds — scholarship endowments and graduate fellowships, new lab equipment, library acquisitions and faculty research, to name just a few. We are very grateful to our alumni and friends for their extraordinary generosity."

Giving was up in all categories. Nearly 63,000 alumni made gifts totaling \$29.7 million, compared with

\$26.9 million in 1995-96. Nearly 5,000 corporations made gifts totaling \$30.9 million, compared with \$24.8 million the previous year. About 1,600 foundations and other organizations made gifts totaling \$19.5 million, compared with \$17.3 million from this source in 1995-96. Gifts from 39,000 nonalumni individuals totaled \$14.9 million, up from \$14.2 million the year before.

Spanier also noted that these gifts would be counted as part of the

advance phase of the University-wide capital campaign that Penn State expects to launch at a later date.

"While we have not yet determined the dollar goal for the campaign, this year's record giving certainly gives our fund-raising efforts strong momentum," he said. "The fact that so many individuals and organizations want to help Penn State is a tremendous source of inspiration as we continue to set the strategic direction of the campaign."

From the Trustees Docket

Retirement facility lease agreement ratified

By ALAN JANESCH
Public Information

The Board of Trustees approved a land lease agreement, with options for future lease or purchase, for an 80-acre University-owned parcel of land. The agreement will allow developers to move ahead with a proposed University-related retirement community project known as "The Village at Penn State."

The parcel, known as the "Farm 8" site, is bounded by the Mount Nittany Expressway and Fox Hool Road near University Park. Initially, up to 30 acres of the parcel will be leased to the Village at Penn State Retirement Community — a group that will have non-profit status but will still pay local property taxes.

Penn State is interested in the development of a retirement community because it believes that the State College area is highly attractive to retirees with Penn State ties, that the University's involvement will help ensure the success of such a community and that the educational and volunteer relationships it makes possible would be beneficial to the retirees and to Penn State.

William H. McKinnon, senior associate vice president for finance and business, said the site is well suited to the project. "It provides University-owned land that can be leased to the development team, and adjacent to the University-owned parcel is privately owned land that can be sold for individual condominium ownership," McKinnon said. "Also, the view from the site to Mount Nittany and the University provides a desired visual relationship between Penn State and the Village."

Under the terms of the agreement, there will be a base lease payment of \$50,000 a year, plus an additional annual lease payment per unit per year. The term of the lease, starting with the closing of financing to build the initial phase of the project, will be 35 years, with the option for two consecutive 15-year renewal periods.

"Retirement community residents could get involved in virtually every part of Penn State, including teaching, volunteering at artistic and cultural events, volunteering in our day care centers or the libraries, or helping at athletic events."

President Graham B. Spanier

There also are options to lease or purchase the remaining portions of the 80-acre site for a period of 10 years from the effective date of the initial lease agreement.

"I'm very pleased that the project is moving ahead," said President Graham B. Spanier. "The idea of a retirement community at Penn State engages me from almost every perspective."

Spanier said that a properly designed and operated retirement community related to the University could provide valuable services to its residents, enhance the already close relationship between Penn State and its alumni and promote increased educational opportunities for Penn State students and faculty. "Retirement community residents could get involved in virtually every part of Penn State," Spanier said, "including teaching, volunteering at artistic and cultural events, volunteering in our day care centers or the libraries, or helping at athletic events."

To develop the retirement community, the University has been working with a project team consisting of Cooperative Retirement Services of America Inc. (CRSA) of Memphis, Tenn., and Pinnacle Development Inc. of State College.

Peter B. Weiler, associate vice president for development and alumni relations, told the board

that a marketing survey done earlier this year had high response rates and significantly positive results.

In general, retirement communities of this kind provide several levels of services for retirees: independent living, for those who can care for themselves; assisted care, for retirees who need some help with personal needs, but are largely self-sufficient; and skilled care, which usually provides high-level care in a nursing-home environment.

As it is currently envisioned, the Village at Penn State would consist of a planned unit development (PUD) for persons 55 and older and a continuous care retirement community (CCRC) for those who want to ensure the availability of long-term care.

Penn State will not use any University funds to develop the project, and will not own or operate the facility. But the retirement village would have access to University programs, services and facilities that would benefit the Village and its residents as well as the University and its students. As a whole, the Village will involve:

- the Penn State Geisinger Health System, in providing medical care;
- the College of Health and Human Development, the College of Medicine and other colleges in doing research and providing services;
- the Penn State Alumni Association; and
- a volunteer program.

In addition, a retirement community associated with Penn State would be able to provide internships and work opportunities to students in health planning and administration, recreation and leisure activities, hotel and restaurant management, human development and family studies, nursing, nutrition, kinesiology, gerontology and other related disciplines. It also will be tied into classes, athletics and cultural events.

Stories in national, regional and area newspapers have described the State College area as a community highly attractive to retirees.

Undergraduate and graduate programs see some changes

For a more complete explanation of the following changes, please see *Intercom's* Web version at <http://www.psu.edu/ur/INTERCOM/Home.html>

■ Undergraduate Programs

The Mary Jean and Frank P. Smeal College of Business Administration

New major announced in management science information systems, and international business; expected to provide a greater degree of internationalization to the curriculum in management science and information systems. For this major, 145 credits are required.

College of Earth and Mineral Sciences

New minor in Industrial Health and Safety. This minor, which will offer a specialized program for students in other broad-based majors, will enable the program to broaden its appeal and, at the same time, satisfy a need for graduates who are trained in the principles of occupational health and safety. For this minor, 18 credits are required.

College of Engineering

Addition of new option to the major in chemical engineering.

— Option in bioprocessing engineering designed

to acquaint the chemical engineering student with the bioprocessing world while building on a strong chemical engineering curriculum; 27 credits are required for this option.

College of Health and Human Development

Change in option in the recreation and park management majors.

- a) Change in name from option in commercial recreation and tourism to option in commercial and community recreation;
- b) Change in name from option in outdoor recreation and environmental interpretation to option in park management and environmental interpretation;
- c) Drop the option in recreation and park management.

■ Penn State Harrisburg, Capital College

New major in electrical engineering; 128 credits are required.

■ Graduate Programs

College of Arts and Architecture

Change in name from Master of Arts Degree Pro-

gram in Music to Master of Arts Degree Program in Musicology.

College of Engineering

Change in program: Doctor of Philosophy Degree in Industrial Engineering.

The change will require the addition of 18 course credits to the Ph.D. program. This change will strengthen the requirements of the industrial engineering program to satisfy faculty desires; and establish requirements on par with those of peer institutions.

College of the Liberal Arts

— New program: Master of Arts Degree in Russian and Comparative Literature.

This new program enables students to concentrate in Russian literature at the graduate level while having the advantages of a comparative context.

— Change in program: Master of Arts Degree program in Speech Communication.

The Department of Speech Communication proposed the addition of a non-thesis option to the master of arts degree program.

From the Trustees Docket

University to deliver papers to residence halls

The University will launch a newspaper delivery program in the University Park residence halls when classes resume on Aug. 27, and also at nine additional campuses that have residence halls.

Students at University Park will have their choice of four daily newspapers when they return to their residence halls. They are *The New York Times*, *USA Today*, the *Centre Daily Times* and *The Daily Collegian*.

An experiment to deliver newspapers to 550 residence hall doors this past spring proved successful enough that the University is expanding the program for the 1997-98 school year. Approximately 17,000 students live in residence halls at the University's residential campuses.

The follow-up survey of the students involved in the 15-week experiment indicated that students who received *The New York Times* and the local newspaper, the *Centre Daily Times*, had a better understanding of local events and a better knowledge of national and international events. The students who took part in the survey also said that access to the daily papers contributed to their overall general education at Penn State and reported that reading a newspaper contributed to their ability to comprehend a debate on a critical issue.

The University also surveyed a group of students in a residence hall where the free newspapers were not delivered to their doors. This group reported they were more likely to get



Synchronized reading

Newspaper reading may become a more common habit at University Park and other campuses with residence halls. This fall, the University will deliver newspapers to residence halls.

Photo: Greg Grieco

news through World Wide Web connections.

"It is clear to us through this experiment that newspaper readership can have a positive impact on the lives of our students and we want to now expand this service," said President Graham B. Spanier, who first suggested bringing newspapers into the residence halls last winter.

Starting with the fall semester in late August, Penn State will purchase several thousand copies of *The New York Times*, *Centre Daily Times* and *USA Today* and place them in common areas of residence halls. Penn State

already contributes \$20,000 a year toward *The Daily Collegian*, the student newspaper, which is offered free at numerous locations around campus.

"We will closely monitor which newspapers are most popular and change the mix of available newspapers accordingly," Spanier said. "We are prepared to make as many copies of the newspapers available as students want, as reading habits and newspaper preferences become more predictable."

"As part of this initiative we also will put in place more convenient distribution of the student newspaper, *The*

Daily Collegian," said William Asbury, vice president for student affairs.

The program will be funded by adding only \$5 a semester to student room and board rates. An increase this small was possible due to extremely favorable rates being offered by the cooperating newspapers.

"It is critical that college students have an understanding of the world, both local and international, where they will soon go out to live, have jobs and raise families," Spanier said. "Reading a daily newspaper is a perfect way to gain a better understanding of that world."

Survey results from the experiment indicate the students who received the papers felt they were more likely to want to continue to read the papers in the future.

The University is going to reap additional benefits as a result of the innovative program. Some of the participating newspapers have indicated they will help establish scholarships for students.

One aspect of the program which a number of students have raised concerns about — recycling of all these newspapers — also has been worked out. The PennMunch company, which implemented research by George Hamilton, senior lecturer in agronomy, to create much from shredded newsprint and other recycled paper, will help recycle these newspapers. It also has indicated an interest in funding a student scholarship as part of the program.

Survey shows support for public higher education funding

Pennsylvanians believe additional tax dollars should be allocated to support public higher education, according to a recently completed study.

The telephone survey of 818 residents of the state was conducted as part of an annual poll of Pennsylvania citizens toward particular issues impacting the state by the Center for Survey Research at Penn State Harrisburg.

The majority of adult Pennsylvanians felt that the state should place high priority on funding its colleges and universities.

The results of the study are consistent with results of previous larger studies by the Gallup Organization.

When asked to consider all the major issues facing Pennsylvania today, and then rate the level of priority that should be placed on funding the state's colleges and universities, 62 percent of the respondents said it should be a "high priority" and 32 percent said it should be a "moderate priority." Only 3 percent of the survey respondents said funding of the state's colleges and universities should rate a low priority.

The majority of Pennsylvania adults believe that the state's funding distribution for higher education is unsatisfactory, favoring more funding for public universities.

Pennsylvania ranks 47th in the nation in support

of public higher education and second nationally in the support of private colleges with tax dollars.

In general, the omnibus study conducted by the Center for Survey Research found:

- Access to an affordable college education is important to most Pennsylvanians. In fact, 86 percent of those surveyed said it was very important to them personally or someone in their household or family.

- The majority (62 percent) of adult Pennsylvanians feel that the state should place high priority (in relation to other issues) on funding its colleges and universities.

- The majority (74 percent) of Pennsylvania adults believe that the state's current funding distribution for higher education is unsatisfactory. Of the respondents, 70 percent said they favor more funding for public universities.

- In general, citizens think that Penn State makes an important contribution to the economic vitality of Pennsylvania.

And finally, the poll asked which Penn State activities they considered important to the welfare of the state.

"Programs to help children in grades K-12," "providing a high quality undergraduate education," "retaining workers," "education programs for school teachers," "providing research and service

to the agricultural industry," "helping small business owners" and "stimulating start-up companies" all received broad support from Pennsylvanians who were questioned in the poll.

In addition to being consistent with previous statewide studies, the findings reflect a national trend recently reported on by the Council for Aid to Education, and sponsored by the RAND Corp.

The good news outlined in that report is that demand for a college degree is increasing. This is perhaps not a surprising trend since over the last 20 years the average earnings of males with less than a bachelor's degree have declined while average earnings for those with a bachelor's degree or more have increased. The trend is even more pronounced for women.

However, at the same time demand is growing, escalating costs and decreasing public financing are expected to culminate in a national crisis. In fact, the council warns that if these trends continue at their current rates, by the year 2015 higher education will fall \$38 billion short of what is needed to serve the student population in that year.

The study of Pennsylvania adults was conducted between May 5 and June 1. Publicly supported colleges and universities include Penn State, University of Pittsburgh, Temple, Lincoln, the 14 colleges of the State System of Higher Education and the state's 15 community colleges.

From the Trustees Docket

Operating budget for 1997-98 meets approval

The Board of Trustees approved a 1997-98 total operating budget of approximately \$1.4 billion that includes several significant changes.

"The budget we are presenting to you today differs from those in recent University history in that a President says," said President Graham B. Spanier in his report to the Board of Trustees. "Happily, it includes a 3.1 percent increase in our state appropriation, in contrast to the more modest increase received last year." The state appropriation increase for 1997-98 is \$8.7 million, for a total appropriation of \$289.7 million.

The budget also contains the largest increase for program allocations in many years, including the addition of more than 100 new faculty positions, about 60 of which will be filled this year, and internal budget reductions of about \$3.5 million. It implements for the first time a President's Excellence Fund to provide additional support for each unit's highest priorities; incorporates differential tuition as a new pricing approach; and reflects The Dickinson School of Law and Penn State Geisinger Health system mergers that became effective July 1.

The Dickinson School of Law budget, which was approved by its board on May 30, is now part of Penn State's total operating budget and adds approximately \$11 million to the total. Budget changes at The Hershey Medical Center include an increase of \$35.7 million for the College of Medicine general funds budget and a \$7 million increase for its restricted funds.

The budget also includes a reduction of \$265 million for the University Hospital and a reduction of \$109 million for auxiliary enterprises at Hershey, reflecting the transfer of much of the operations of the hospital to the new entity, the Penn State Geisinger Health System.

"Putting these two pieces together, the total University budget for next year is \$1.4 billion, including \$56.4 million increase in all areas except Hershey and a net reduction of \$331.8 million at the medical center, reflecting the shift to the Penn State Geisinger Health System," Spanier said.

Penn State will have an active role in and provide oversight for the Penn State Geisinger Health System, whose initial annual budget is estimated to be \$1.1 billion. In addition, the Corporation for Penn State—an umbrella for the development of the research park, the Ben Franklin Technology Center of Central and Northern Pennsylvania, the Bioprocessing Resource Center and other areas—has an annual budget of \$11 million.



Help's on the way

Melissa Chaney, instructor in the School of Visual Arts, left, assists student Ryan Deemer during an outdoor session of an art class. Faculty received good news with the Board of Trustees' approval of the 1997-98 operating budget: the University has budgeted for an additional 100 faculty positions.

Photo: Greg Grieco

Giving further detail on the budget, Spanier told the board that the state appropriation will represent 35 percent of the Educational and General Funds Budget—the portion of Penn State's total budget that is supported by state appropriations and tuition and fees for the teaching and service missions of the University. Student tuition and fees will contribute 57 percent and other income from investments, recovery of indirect costs and departmental services will contribute 8 percent.

Cost increases for 1997-98 of \$26.6 million include a net increase of \$1.2 million in employee benefit costs, including increases in health care, social security and changes in employer contributions to TIAA/CREF and the state retirement system, and an increase of \$14.4 million in salary adjustments and related benefits to bring these more in line with other Big Ten public universities.

"To maintain the competitiveness of Penn State's salaries and to recognize the strong performance that is characteristic of our faculty and staff, we gave as much priority as possible to salary increases," Spanier said. "This budget plan is based on a 2 percent increase for all employees whose performance has exceeded expectations, and another 1 percent of the total salary base for additional merit, market, equity and compression considerations."

John Brighton, executive vice president and provost, outlined a number of program adjustments totaling \$7.4 million of the Educational and

General Funds Budget which are allocated to the 31 budget units for program needs. These allocations were recommended by the University Planning Council based on its review of unit strategic plans and requests. They focus on supporting the University's core academic functions and meeting critical needs.

"One of the things that came across repeatedly as the University Planning Council reviewed the college strategic plans is the need for more faculty members," Brighton said. "By nearly any benchmarking measure that looks at the size of the faculty, we are behind other comparable institutions."

Data from the Joint State Government Commission for Pennsylvania's state-related universities show that Penn State's student/faculty ratio of 18.4 to 1 is higher than those for Pitt at 14.5 to 1 and Temple at 16.9 to 1. It would take about 650 additional faculty positions to bring Penn State's ratio in line with the others.

"Through internal budget reallocations and the proposed new funding for academic programs, Penn State will add more than 100 new faculty positions in the 1997-98 budget year. About 60 of these positions will be filled this year and national searches are in progress to fill the rest for the following academic year," he said. "In addition, the equivalent of 21 additional faculty positions will result from shifting academic personnel with administrative assignments back to the classroom."

A total of \$1.3 million through internal reallocations is included to

fund 25 of those new faculty positions; \$1 million is allocated to add faculty positions and enhance academic programs in the Life Sciences Consortium, including the Eberly College of Science, the College of Health and Human Development, the College of Agricultural Sciences, the College of Medicine, the College of the Liberal Arts and the College of Engineering; and \$4.6 million will support faculty positions and other high priority academic programs.

In addition, more than \$1.4 million, reflecting the changes in tuition, will go to colleges and campuses based on the enrollment in each unit. About \$827,000 for instructional workload adjustments will go to nine of the 10 colleges based on changing enrollment patterns.

Libraries and information technology that support every part of the University will receive a total of \$2.1 million, and \$1 million is allocated for major maintenance of buildings and facilities in addition to the \$7.3 million annually budgeted for major maintenance. Maintenance funds will need to be increased significantly over the next several years to reduce the growing backlog of projects currently estimated to total more than \$170 million. About \$605,000 will go to academic support and administrative support units, and \$250,000 will enhance undergraduate student aid.

On the income side of the Educational and General Funds Budget new funds include about \$1.1 million in grants-in-aid; \$6.5 million in the state appropriation; \$15.5 million from tuition rate changes; \$390,000 from new laboratory and clinical surcharge; \$606,000 from a small increase in the computer fee, \$500,000 from Summer Session tuition increase; \$1.2 million in investment income and indirect cost recovery; and other charges for a total of approximately \$26.6 million in income changes.

Before concluding, Spanier announced that he had established the President's Excellence Fund of \$1.6 million to provide additional support for the highest priority needs within each college and administrative unit.

"The proposed salary increase is clearly short of where we'd ideally like to be, and the program allocations are never enough to meet even the most critical needs. This fund will help to ease these concerns to some extent," he said.

"The use of these funds is to be determined by each unit and may be used to reward unusually meritorious faculty and staff, add faculty positions, support graduate assistantships, meet special departmental allotment requirements or other high priority needs."

New health system is officially up and running

State attorney general signs agreement with the University and Geisinger

As planned, the Penn State Geisinger Health System was formally launched July 1 at a signing ceremony in Danville between officials from Geisinger and The Milton S. Hershey Medical Center.

Just one day before, the state's attorney general forged an agreement with the University and Geisinger. Over the next six months, the system will ensure accessibility to sophisticated health care services for consumers in central Pennsylvania. The Penn State Geisinger Health System must negotiate with all other health plans in a 20-county region of central Pennsylvania to provide tertiary care — sophisticated procedures such as organ and bone marrow transplants.

"The attorney general is pleased we could enter into this agreement," said **Sean Duffy**, spokesman for that office. "We have had good conversations with all parties involved and this agreement protects consumers as well as remaining cognizant of Penn State's and Geisinger's desires — allowing them to move forward and meet their self-imposed July 1 deadline."

The merger of the clinical enterprises of Geisinger and Hershey Medical Center into a new, non-profit, health system establishes a billion-dollar enterprise that is the third largest physician practice in the nation. The merger is the only one between a health system which includes an insurance organization and a school of medicine. The Penn State Geisinger Health Plan, formerly the Geisinger Health Plan, is the largest rural HMO in the nation.

The system will span 40 contiguous counties and will provide increased access to 1,000 physicians through its combined network of 77 clinics. The network will also efficiently serve large employer

"This merger ensures that a strong Pennsylvania health-care system will not only survive but will thrive as organizations consolidate to become more efficient and effective."

Dr. Stuart Heydt
chief executive officer
Penn State Geisinger Health System

with multiple worksheets. According to leaders of the new system, providing physicians for rural areas with large populations of older residents is a major commitment of the Penn State Geisinger Health System.

"This merger ensures that a strong Pennsylvania health-care system will not only survive but will thrive as organizations consolidate to become more efficient and effective," said **Dr. Stuart Heydt**, chief executive officer of the Penn State Geisinger Health System. "As this new system matures and grows, we will continue to look for opportunities for partnership with other health-care organizations."

The new system will provide patient care from primary to the most complex specialty care, with support from research conducted in Penn State's College of Medicine and the Janet Weis Research Center in Danville.

Dr. C. McCollister Evarts, Penn State's senior vice president for health affairs and dean of the College of Medicine, recently told the Board of Trustees that the merger also brings the opportunity for pop-

ulation-based medicine, "enabling us to develop extensive programs focusing on wellness and fitness, behavior modification and outcome studies where part of our attention will be focused on populations as well as individuals."

Evarts noted the significance of education with in the new system. "A system with its own health plan provides the opportunity for our medical students and residents to learn to practice in an environment that focuses on managed care. And, with Penn State Geisinger Health Plan being the largest rural HMO in the United States, students will get acquainted with rural medicine, as well as urban medicine in the more populated areas of southeastern Pennsylvania."

According to Evarts, the system's merged research programs will focus on identifying and solving health problems specific to Pennsylvanians.

Since January, employees at both Hershey and Geisinger have worked hard to ensure a smooth transition.

Frank Henry, chairman of the board of the new Penn State Geisinger Foundation, said, "I would like to acknowledge all of our employees who have shown their commitment to the new system by working diligently — and often overtime — over the past six months to effect a smooth transition. Many employees from both Geisinger and Hershey have participated on joint transition teams that have been meeting to plan the specific details of the new system. To everyone who has helped to get us here today, I simply say, 'Thank you.'"

Henry said that the teams, who have been planning the future of areas like patient care, personnel, finances and communications, will continue to meet in the months to come.

University's bond rating is upgraded

Citing Penn State's substantial name recognition, long-established academic reputation and high student quality, Moody's Investors Service recently upgraded the University's long-term bond rating from A1 to Aa3. The upgrade from the A rating is significant, in that Aa-rated bonds are generally considered to be of "high investment grade."

According to a recent ratings update from Moody's, the large size and scope of Penn State's enrollment "highlights strong student demand. The University generates statewide and even national demand for its instruction, research and public service programs." The update specifically notes that:

■ The changeover to the Commonwealth College system, which took effect July 1, is "expected to bolster University-wide student demand."

■ The recent merger between The Hershey Medical Center and the Geisinger Health System, which also took effect July 1, "reduces risk in a well-diversified revenue stream."

■ Penn State's endowment has grown from \$110.5 million to \$426.6 million in the last decade, triggered by investment gains and successful fundraising campaigns led by strong alumni participation.



Practice makes perfect

The Pennsylvania All-State Lions Band, a program of the Penn State Blue Band, draws youths from across the state to University Park for competition. Shown practicing recently are, from left, Todd Shearer of Lancaster, Laura Smith of York, Mike Marsh of Green Castle and Mindy Davidhizar of Johnstown.

Photo: Greg Grieco

PROMOTIONS

→ Effective July 1, 1997

ACADEMIC RANK

Following are University-wide faculty promotions, effective July 1.

TO PROFESSOR

Marc D. Abrams, forest ecology / physiology
Michele Amateau, art
Sarah M. Assmann, biology
William G. Axinn, sociology
Ayoub B. Ayoub, mathematics, Penn State Abington
Lori J. Bechtel, biobehavioral health, Penn State Altoona
Robert C. Black, biology, Delaware County
S. Diane Brannon, health policy and administration
Susan L. Brantley, geosciences
Richard A. Carlson, psychology
Patrick G. Cheney, English and comparative literature
John M. Cimbala, mechanical engineering
Chitaranjan Das, computer science and engineering
Derek Elsworth, mining engineering
Robert M. Frieden, communications
Aaron D. Gresson, education
Jawaid Hameed, architecture
Rod M. Heisey, biology, Penn State Schuylkill, Capital College
Charles Helou, mathematics, Delaware County
Charles A. Hughes, special education
Sanjay B. Joshi, industrial engineering
M. Arshad Khan, chemistry, Penn State DuBois
Joseph L. Kincheloe, education
Sanat K. Kumar, materials science and engineering
Lee R. Kump, geosciences
Akhlesh Lakhtakia, engineering science and mechanics
Dennis Lamb, meteorology
Les E. Lanyon, soil fertility
Mark Maroncelli, chemistry
Thomas J. McGarrity, medicine, The Milton S. Hershey Medical Center
Sally A. McMurtry, history
Kenneth M. Merz Jr., chemistry
Carl Mitchell, philosophy and science, technology and society

Victor Nistor, mathematics
Edward S. Podczaski, obstetrics and gynecology, The Milton S. Hershey Medical Center
R. Alan Price, English, Penn State Hazleton
William J. Rothwell, education
David W. Russell, electrical engineering, Penn State Great Valley
Victor E. Sanvido, architectural engineering
Dennis C. Scanlon, agricultural and extension education
John L. Selzer, English
Alok Sinha, mechanical engineering
Jill P. Smith, medicine, The Milton S. Hershey Medical Center
Stephen M. Smith, agricultural economics
Paul E. Sokol, physics
Donald A. Streit, mechanical engineering
Stefan T. Thynell, mechanical engineering
Linda K. Treviño, organizational behavior
Christopher E. Uhl, biology
Judith R. Vicary, health education and biobehavioral health
Robert D. Weaver, agricultural economics
James A. Winsor, biology, Penn State Altoona

TO ASSOCIATE PROFESSOR

John V. Badding, chemistry
Donald D. Bergh, management
Ronald V. Bettig, communications
Gary E. Bolton, management science
Barbara A. Bremer, psychology, Penn State Harrisburg, Capital College
Barbara E. Bullock, French and linguistics
David J. Cannon, industrial engineering
Richard G. Caram, theatre arts, Penn State Altoona
Jon M. Carson, engineering, Penn State Wilkes-Barre
Kumkum Chatterjee, history

Zhibo Chen, mathematics, Penn State McKeesport
Robert E. Cillely, surgery, pediatrics, neuroscience and anatomy, The Milton S. Hershey Medical Center
Peter B. Crabb, psychology, Penn State Abington
John E. Daniel, music
C. Leah Devlin, biology, Penn State Abington
Cheng Dong, bioengineering and engineering science and mechanics
Deborah R. Erickson, surgery, The Milton S. Hershey Medical Center
Dorothy H. Evensen, curriculum and instruction
Mark A. Feamow, theatre arts
Clarence W. Finley Jr., chemistry, Penn State New Kensington
Shelby J. Fleischer, entomology
Peter B. Flemings, geosciences
Katherine H. Freeman, geosciences
Konstantinos G. Goulas, civil engineering
Hassan Gourama, food science, Penn State Berks, Berks-Lehigh Valley College
Mark J. Gultinan, plant molecular biology
Elizabeth A. Hanley, kinesiology
S. Blair Hedges, biology
Benjamin T. Hudson, history and Medieval studies
Timothy F. Hertz, music
Timothy W. Kelsey, agricultural economics
Ronald P. Krahe, engineering, Penn State Erie, Behrend College
Jonathan P. Lynch, plant nutrition
Jeffrey S. Mayer, electrical engineering
Wayne J. McMullen, speech communication, Delaware County
Richard G. Mistrick, architectural engineering
Veronica Montecinos, sociology, Penn State McKeesport
David A. Morand, management, Penn State Harrisburg, Capital College
Daniel J. Nadenicek, landscape architecture
Michael J. Natan, chemistry
Jeffrey T. Nealson, English
Reiko T. Nemoto, comparative literature and Japanese
George J. Olt, obstetrics and gynecology, The Milton S. Hershey Medical Center
Jorge A. Pallin, physics
Jean M. Sanders, art
Dhushyanthan Sathianathan, engineering
Jie Shen, mathematics
Zachary Simmons, medicine, The Milton S. Hershey Medical Center

Thomas W. Smialek Jr., music and integrative arts, Penn State Hazleton
Mario Szaier, electrical engineering
Diane M. Thiboutot, medicine, The Milton S. Hershey Medical Center
Daqing Wan, mathematics
Howard N. Weiss, mathematics
Danny R. Welch, pathology, The Milton S. Hershey Medical Center
Thomas Yahner, landscape architecture
Chengbo Yue, mathematics
Xingqiao Zhang, physics, Penn State Hazleton

TO ASSOCIATE LIBRARIAN

Nancy J. Butkovich, collections and reference services
Kevin R. Harwell, collections and reference services
Bonnie A. Osif, collections and reference services
Helen M. Sheehy, collections and reference services
Diane L. Shenk, collections and reference services
Mila C. Su, information access services, Penn State Altoona

TO SENIOR SCIENTIST

Ram B. Bhagat, Applied Research Laboratory

COOPERATIVE EXTENSION

Following are promotions of staff members in Penn State Cooperative Extension in the College of Agricultural Sciences effective July 1.

TO SENIOR EXTENSION AGENT

Brenda M. Bernatowicz, Erie County
J. Lee Miller, Beaver County
Gary L. Sheppard, Westmoreland County

TO EXTENSION AGENT

Daniel L. Brackett, Venango County
Mary R. Ehret, Luzerne County
Donna L. Foukl, Monroe County
Jeffrey T. Fowler, Venango County
Marlene O. Nash, Bucks County
Pamela L. Paletta, Washington County
Janice E. Stoudnour, Bedford County
Delbert G. Voight, Lebanon County

TO ASSOCIATE EXTENSION AGENT

Melanie E. Barkley, Bedford County
Ryan L. Hockensmith, Lawrence County
Walter E. Whitmer, Juniata County

LECTURES

Number theory conference to be held July 30-Aug. 3

More than 100 mathematicians and others from around the world will gather at University Park for the conference *Topics in Number Theory*, from July 30-Aug. 3.

The conference will feature an international lineup of speakers who are leading researchers in additive number theory, arithmetic geometry, combinatorics, computational number theory, automorphic forms and q-series.

The conference will highlight recent number theory advancements, especially those related to modular

forms and q-series, and the interactions between these two topics.

The conference is a continuing and distance education service of the Eberly College of Science, Department of Mathematics.

For conference information, contact Ken Ono at (814) 865-6642 or through e-mail at ono@math.iast.edu. For information about registration, contact Roberta Moore at (814) 863-5120 or through e-mail at Confence-Info@cde.psu.edu. You also can call (800) 778-8632, or visit the Web at: <http://www.cde.psu.edu/CEG/NumTheory>.

Penn College to hold grammar conference

Summertime is grammar time for English educators from across the country who plan to gather at Pennsylvania College of Technology for the eighth annual conference of the Assembly for the Teaching of English Grammar (ATEG) on July 18 and 19.

The conference attracts nationally known grammarians who will serve as featured speakers including Penn College's own Edward A. Vavra, associate professor of rhetoric; Connie Weaver, author of *Teaching Grammar in Context*; Rei Naguchi, author of *Grammar and the Teaching of Writing*; Bill McCleary, editor of *Composition Chronicle*; and Martha Kolln, president of ATEG and author of *Rhetorical Grammar*.

The event's keynote speech will

be delivered by Art Whimberly, author of *Analyze, Organize, Write* and *Blue Print for Educational Change*. Whimberly, an educational researcher and consultant, also will give a workshop titled "Improving Writing, Reading and Reasoning with Cooperative Learning and Text Reconstruction."

Separate from the conference, he will offer a three-hour workshop for English, math, science and social studies teachers titled "Teaching Reasoning for Reading, Writing and Math Skills."

Registration is open to all educators. For more information on registration fees and events, contact Vavra at (717) 326-3761, ext. 7736 or (717) 327-4503, or via e-mail at evavra@pct.edu.

Faculty/Staff Alerts

Are universities humane?

The extent to which Penn State and other American universities are treating humane and responsible employees and students is the topic of the next edition of "To the Best of My Knowledge," President Graham B. Spanier's monthly call-in program on WPSU-FM (90.1, 91.5 and 106.7), airing at 7 p.m. Tuesday, July 15.

Increasingly, colleges and universities are adopting such progressive business and industry features as flexible, on-site day care and ombudsman programs. Combine these with traditional benefits like tuition remission and reasonably priced medical plans and you have an ideal work setting. Or do you? Why is discontent so prevalent at so many levels of higher education? And why did more than a quarter of Penn State faculty and a third of the University's staff say in a recent survey that they would leave to get another job with equal pay, benefits and working conditions?

Listeners with opinions about these issues are invited to join Spanier and his guest, Robert Hemenway, chancellor of the University of Kansas, by calling 1-800-543-6242 during the one-hour program. Internet users worldwide will be able to link to sound and pictures from the program at www.psu.edu/ur/tech/tech.html; and they will be able to submit questions and comments via e-mail to response@psu.edu.

HRDC courses

The following programs are being offered for faculty and staff by the Human Resource Development Center. To register, complete the form found in the back of the Spring/Summer HRDC catalog, and fax to (814) 865-3522.

- Continuous Achievement: How to Increase Effectiveness at Work — PRO 020
- July 17, 9 a.m. to noon, 319 Rider Building, Cost: \$35.
- Managing Your Career in the New World of Work — PRO 097
- July 30, 9 a.m. to 11 a.m., 319 Rider Building, Cost: \$25.

Network interruptions planned

As part of the University's telecommunications infrastructure upgrade project, access to private fiber networks and the data backbone at some University Park buildings will be interrupted between mid-

night, July 25, and 8 a.m. July 27. The outage is required to splice and relocate fiber bundles into a new telecommunications room that is being created by the project. The move will enhance the reliability of network connections.

On each given day, according to the Office of Telecommunications, the following buildings will experience an intermittent outage during the associated timeframes listed below. Please note that not all buildings mentioned during a particular timeframe will be down for the entire duration. For example, while one fiber bundle is being cut and replaced, the other buildings scheduled for that timeframe will most likely still have service. Once the service is restored, work will commence on the next bundle.

Although all attempts will be made to keep the outage to a minimum, the longest outage during the weekend is expected to be six hours. All other outages should be approximately three hours. The planned outage schedule follows:

- Between midnight Friday, July 25 and 8 a.m. Saturday, July 26: Old Main, EE West, EE East, Steidle, Hosler, Reber, Noll Lab and Power Plant.
- Between 3 p.m. Saturday, July 26, and 8 a.m. Sunday, July 27: Sackett, Hammond, engineering units, Sparks, Hammond, Deike, EE West, Carnegie, Old Botany and Schwab.

A representative from OTC will contact network administrators about when their particular network will be back online. If you have questions, please contact your network administrator or the OTC Network Management Center at (814) 863-HELP (863-4357).

For more information, see the OTC Web site at <http://www.ctic.psu.edu/ur/>.

SK run registration

Registration forms are now available for the ninth annual Chris Poster Memorial 5K run set for Saturday, Aug. 16, at Penn State York. The event is held in memory of Chris Poster, a York Suburban High School runner, and awards scholarships to deserving high school seniors. To date, a total of \$15,000 in scholarship aid has been awarded as a result of the race.

For more information or for a registration form call York campus at (717) 771-4126.

Photos available online

News editors, newsletter editors and Penn State fans can now download art and photographs 24 hours a day, seven days a week from the Department of Public Information's newest service. Computer illustrations, graphs and photographs that accompany daily and breaking news stories are now available, as are those items specially requested by editors and reporters. Public Information also offers a photo archive with a Penn State theme, including President Graham B. Spanier's most recent portrait; shots of Old Main; Beaver Stadium; and general campus shots. More will be added, and your suggestions are welcome.

There are two ways to get to the site. One is to point your Web browser (such as Netscape) at <http://murrow.oud.psu.edu/ART/>

You also may use an FTP client directed at host.murrow.oud.psu.edu
User ID: news (all lowercase)
Password: NEWS (all caps)
Directory: /ART

Search the archives online

If you are looking for an *Intercom* article on someone you know, want to read about faculty research or want to find out if a particular issue was covered by *Intercom* or Public Information, you can search for it on the Web. All issues of *Intercom* and most Public Information press releases since 1995 are archived on the University Relations home page.

The page address is <http://www.psu.edu/ur/>. To go directly to the search engine, the URL is <http://www.ur.psu.edu/eg.cgi>.

Children's Miracle Network

During its annual 21-hour telethon May 31 through June 1, the Children's Miracle Network raised \$1,037,500 for the Penn State University Children's Hospital, at The Milton S. Hershey Medical Center.

Hershey Foods employees were the largest employee group, having raised \$122,000, followed by the medical center employees who raised \$80,000. The Children's Miracle Network's corporate sponsors raised more than \$500,000 and community organizations raised over \$100,000.

All funds raised by the telethon locally will support pediatric services at Penn State University Children's Hospital.

■ THE NEW PENN STATE

Penn State, Dickinson School of Law join forces

The partnership, first proposed roughly 30 years ago, became official July 1

Editor's note: The following story is part of an ongoing series focusing on the changes Penn State is undergoing as part of its redesign. Throughout the coming year, the *Intercom* will look into various aspects of the reorganization that became effective July 1.

By KIMBERLEY YARNELL BIERLEY
Public Information

Fourteen days ago, Penn State added legal education to its curriculum when The Dickinson School of Law in Carlisle officially became The Dickinson School of Law of The Pennsylvania State University.

The law school is the oldest law school in Pennsylvania, having been founded in 1834 by Judge John Reed, and was the oldest independent law school in the nation.

There are approximately 530 students, including those enrolled in the master's program in comparative law, at Dickinson. The incoming class this fall will have about 175 students. Dickinson's Dean Peter G. Glenn is proud of the fact that the 1997 entering class will have stronger academic credentials than the class that entered in 1996, despite a nationwide decline in law school applicants.

Glenn is also proud of the fact that Dickinson is probably the only law school in the United States that won't raise tuition this year. Tuition at Dickinson is \$14,500, and the cost for on-campus housing is \$3,000 for the 60 students who live in on-campus residences; and a meal plan, at a cost of \$2,680, is available to all students through the Dickinson College food service. Students also will have \$175,000 more in financial aid available this fall than last year, the dean said.

A quiet merger

The July 1 merger with Penn State, which will not be fully accomplished until the year 2000, is only the latest cooperative venture for the two institutions. Last year, the law school implemented a master's degree in public administration/juris doctorate program in cooperation with Penn State Harrisburg. This summer, Dickinson is collaborating with the College of Agricultural Sciences to begin an Agricultural Law Research and Resource Center at the law school. It is hoped that this center will provide research, outreach and service to the Commonwealth.

Officials also are considering expanding degree offerings to include a combined law degree and MBA with The Smear College of Business Administration, and a law degree combined

"From the law school's perspective, this merger will provide Dickinson's students with enriched programs and cross-disciplinary education and an improvement in technology available for research and learning."

Peter G. Glenn, dean
The Dickinson School of Law of The Pennsylvania State University



Win-win situation

The merger of The Dickinson School of Law and Penn State benefits both institutions. Penn State gains a prestigious law school, and Dickinson gains administrative assistance. In addition, Dickinson is now nationally more visible as a Big Ten law school.

with a master's degree in environmental pollution control, along with joint programs with other Penn State colleges.

"From the law school's perspective, this merger will provide Dickinson's students with enriched programs and cross-disciplinary

education and an improvement in technology available for research and learning," Glenn explained.

The dean is anticipating two new programs, one that would allow highly skilled undergraduate students at Penn State to earn their bachelor's degrees and juris doctorate degrees in

six years and a second that would include those degrees along with an MBA to be earned in seven years.

"I think Dickinson will broaden Penn State's offerings by providing a first rate law school. For Dickinson, it will enable the school to concern itself more intensely with providing a top quality legal education by having some of the administrative responsibilities handled by Penn State, which has a larger staff, more technology and more experience in administrative areas. Penn State has a first rate administrative staff," said Carlisle attorney and Dickinson graduate Robert Frey, who proudly serves as president of the law school's Board of Trustees and who will serve as trustee emeritus of Penn State.

Frey calls Dickinson a "little gem" and thinks the merger is a "win-win" situation for both institutions.

"Penn State is a vigorous, rapidly advancing institution and its goals are not different from Dickinson's in the area of quality," he said.

A long history

Dickinson publishes one of the oldest law school publications in the country. The first issue of *The Forum* was published on Jan. 15, 1897. In 1909, its name was changed to *Dickinson Law Review*.

In the early years of the school, law degrees were awarded under the auspices of Dickinson College, a nearby four-year liberal arts college. The law school's incorporation in 1890 made it independent of the college and the first woman graduated from the law school nine years later, while the first foreign student was from Japan and earned a degree in 1892.

Judge Reed's stated goal in founding the law school was "to prepare students thoroughly for the practice of their profession." Dickinson has been a pioneer in the teaching of legal skills. The forerunners of today's advocacy courses were developed at Dickinson in the 1930s, and the school introduced legal clinic-type activities in the late 1940s and early 1950s. The law school also was an innovator in providing comparative law programs for foreign lawyers when it established a master's degree program in comparative law in 1968.

Among Dickinson's many well-known graduates are former governors Andrew Gregg Curtin, Arthur James and John Fine; current Pennsylvania Gov. Tom Ridge; U.S. Sen. Rick Santorum; and president pro tempore of the Pennsylvania Senate Robert C. Jubilir.

ARTS & ENTERTAINMENT

AT PENN STATE



On display

"Determination," a French ceramic by C. Kelly Lohr of Churdan, Iowa, will be on display at Zoller Gallery at University Park until July 20 as part of the Crafts National 31 exhibition.

Photo: Greg Greco

Centre Stage productions to conclude 1997 season

Pennsylvania Centre Stage's production of "Misalliance" will play at 8 p.m. July 15-19 and 22-26, in the Pavilion Theatre on the University Park

campus, with Saturday matinees at 2 p.m. July 19 and 26.

Pennsylvania Centre Stage, the professional summer theatre at Penn State, is a program of the College of Arts and Architecture.

Tickets are \$21 for students and \$24 for non-students.

The 1997 Centre Stage season concludes with "A Chorus Line," opening at 8 p.m. Friday, July 18, in the Playhouse at University Park. It runs through Aug. 2.

School of Theatre Arts faculty member Cary Libkin directs the musical, which plays at 8 p.m. July 18, 19, 22-26 and July 29-Aug. 2.

For tickets to either production, contact the Arts Ticket Center at (814) 863-0255. Outside the local calling area, phone (800) 278-7849.

Faculty artists featured in Palmer Museum exhibit

The Palmer Museum of Art exhibition "sva 20," recognizing 20 tenure track studio faculty artists from the School of Visual Arts, is on display at University Park through Sept. 14.

The exhibit recognizes faculty artists as a prelude to the fall celebration of the 25th anniversary of the museum's founding. Participants are Micaela Amato, Charles Cave, Robin Gibson, Kenneth Graves, Julie Helfernan, Marc Hessel, James Hoptensperger, John Kissick, Gerald Lang, Leslie Leupp, Jerrold Maddox, Sallie McCorkle, Thomas McGovern, Stephen Porter, Liz Quackenbush, Jean Sanders, Kristin Breslin Sommesse, Lanny Sommesse, Christopher Staley and Robert Yarber.

Arts Center announces additions to schedule

The Community Arts Center in Williamsport, part of Penn College, has announced additions to its 1997-98 Performing Artist Series.

■ "The Legends of New Orleans," featuring the finest living practitioners of Dixieland jazz, will kickoff the season on Aug. 4.

■ "42nd Street," featuring the tap dancing and American musical standards that made this Broadway musical famous, will come to the stage on Sept. 24.

■ Kathy Troccoli will perform a contemporary Christian concert with an opening performance by Greg Long on Oct. 14. Tickets go on sale Aug. 15.

■ Schoolhouse Rock LIVE! includes nostalgic, groovy tunes that will provide a special family entertainment treat and will be performed Nov. 1. Tickets will go on sale Aug. 18.

■ Philips, Craig & Dean will provide a contemporary Christian concert with an opening performance by Aaron Geoffroy on Nov. 20. Tickets go on sale Oct. 15.

All performances will be at 7:30 p.m. For tickets or more information, call the Community Arts Center Box Office at (717) 326-2424.



BRYCE JORDAN CENTER

Big band music

The big band sounds of The Jimmy Dorsey Orchestra will fill The Bryce Jordan Center at 7 p.m. Saturday, July 26. Tickets are \$19.50 for reserved seating. Group rate tickets (15 or more) are \$17.50 for reserved seating. Call (814) 863-1812 for more group information. Special limited table seating is available and there will be dance floors accessible to all in attendance.

This event marks the first time a big band has performed at the Jordan Center.

Country stars team up

Two of the strongest entertainment forces in country music will team up when Reba McEntire and Brooks & Dunn share the stage in the round at 8 p.m. Friday, Aug. 15, at The Bryce Jordan Center. Tickets are \$41.25 for reserved seating and are on sale now.

McEntire continues to make new strides as one of the top-selling country female artists of all time. Last year, she sold out her concert at The Bryce Jordan Center in just four hours.

Reigning Country Music Association Entertainers of the Year, Kix Brooks and Ronnie Dunn have accumulated more than 25 major industry awards and sold 14 million albums in just over five years since they joined forces.

Upcoming events

■ July 18: Barry Manilow

Tickets: \$39.50 and \$29 for reserved seating, on sale now.

■ Aug. 8: Tina Turner, 7:30 p.m.

Tickets: \$38.50, \$27.50 and \$19.50 for reserved seating.

■ March 26-29, 1998: First Annual Pennsylvania Sportsman's Hunting, Fishing and Outdoor Show

Vendors interested in exhibiting may call (814) 863-1570 or (814) 863-5503.

Tickets can be purchased at the Bryce Jordan Ticket Center, Eisenhower Auditorium South Box Office, selected Uni-Mart ticket outlets, Commonwealth Campus ticket outlets, or by calling (814) 865-5555 locally, or toll-free at (800) 863-3336.

For more information on Bryce Jordan Center events, visit the Web at <http://www.bjc.psu.edu>.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Tuesday, July 15

Music at Noon: Fisher Plaza, 3 Musicians La Banjo.
 "To the Best of My Knowledge" with President Graham B. Spanier, 7 p.m., WPSU-FM.

"Misalliance" by George Bernard Shaw, 8 p.m., Pavilion Theatre, through July 28. For tickets, phone (814) 863-0255.
 GSA Explazagang, 9 p.m., Fisher Plaza, "Sabrina."

Wednesday, July 16

"A Chorus Line," Playhouse Theatre, through Aug. 2.
 "Up From Down Under: Australian and New Zealand Short Films Today The Younger Generation," 7 p.m., Kern Building Auditorium.
 HUB Lawn Films, dusk, "Space Jam."

Thursday, July 17

Music at Noon: Fisher Plaza, Arthur Goldstein Jazz Quartet.
 Friday, July 18

Ice Cream "Diversions," 7 to 8 p.m., Creamery patio, Baverly Stomper.

Saturday, July 19

GSA Family Films, 8:30 p.m., Fisher Plaza, "Escape to Witch Mountain."

Monday, July 21

Dance Aerobics "Diversions," 8 to 10 p.m., White Building.

Tuesday, July 22

Music at Noon: Fisher Plaza, Bruce and Jesse.
 GSA Explazagang, 9 p.m., Fisher Plaza, "How to Steal a Million."

Wednesday, July 23

Comic Operas for the Movies, 7:30 p.m., Music Building.
 Recital Hall, "Il Barbiere di Siviglia."

Summer Opera Film Series, 7:30 p.m., Recital Hall.

HUB Lawn Films, dusk, "Maverick."

Thursday, July 24

Music at Noon: Fisher Plaza, Redwing.

LECTURES

Wednesday, July 16

Konstantinos A. Lazopoulos on "How to Formulate the Equilibrium Problem in Finite Elasticity," 3:35 p.m., 214 Hammond.

Thursday, July 17

Richard Orday on "Nerve Cell Function: Lessons From Tiny Flies," 4 p.m., Penn State Room, The Nittany Lion Inn.

Thursday, July 24

Karl Mueller on "Spinning, Flipping and Connectivity: Solid-State NMR of Complex Solids," 4 p.m., Penn State Room, The Nittany Lion Inn.

CONFERENCES

Sunday, July 20

"Ag in the Classroom," Agricultural Science and Industries Building, through July 25.

EXHIBITS

HUB Art Alley Cases, Art Alley Panels and Hall Cases

Mixed media of Susan Struble and Alice Rini, through July 31.
 HUB Browning Gallery and Formal Gallery

Exhibit by the Central Pennsylvania Festival of the Arts, through July 18.

Kern Cases

Jewelry by Evelina Francis, through July 27.

Kern Panels

Photobooks by John Mannion, through July 27.

Kern Tail Cases

Embroidery Guild exhibit, through July 27.



Exhibit continues

"Air Conditioned American," a photo collage by Annie-Hannah Mancini of Osceola Mills, is part of Images '97, the fine arts exhibition of the Central Pennsylvania Festival of the Arts. The exhibition is on view through July 18 in the formal and browsing galleries of the Hetzel Union Building on the University Park campus.

Palmer Museum of Art

"Making History: Historical Narratives in Pennsylvania Prints," through Aug. 31.

School of Visual Arts Faculty Exhibition, through Sept. 14.
 "Our Town: A Selection of Town Views from the Pennsylvania Prints," through Sept. 28.

Zoller Gallery

Crafts National 31, through July 20.

■ Reflects an international perspective.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>

JULY 15 - JULY 24

New at Penn State

Farm emergencies

A new educational program, "First-on-the-Scene for Farm Families," offered by the College of Agricultural Sciences is designed to help farm workers and members of farm families know exactly what to do if they are the first person to discover a farm emergency.

"Farm workers face many hazards, from tractor overturns to pesticide exposure," Dennis Murphy, program developer and professor of agricultural engineering, said. "Their survival often depends on the individuals—usually co-workers or family members—who find them and must care for them until emergency personnel arrive."

First-on-the-Scene teaches people how to make important decisions that will not further complicate the injured person's medical condition. The program leads participants through various scenarios, forcing them to examine typical injury incidents and to make proper decisions.

For more information about the program, contact the Cooperative Extension office in your county. More information also can be found on the Web at http://server.ags.psu.edu/dept/extension/eng_safety/.

Graduate program at McKeesport

Preparations are under way at Penn State McKeesport to deliver several graduate, continuing and distance education programs formerly offered at the Monroeville Center. The programs were transferred to the McKeesport campus after the center closed at the end of the spring semester.

One program being offered is a master's of education degree in adult education. Students can earn 33 credits required for the M.Ed. program within a 24-month period through part-time evening and Saturday study. That program, along with a certificate program in chemical dependency, a variety of three-credit and one-credit workshops geared toward teacher certification, and a human resource development certificate program are among the current offerings. A 42-credit M.Ed. in counselor education with an emphasis on chemical dependency will be offered beginning in the spring of 1998.

MBA at DuBois

Representatives from Penn State Erie, Behrend College, and Penn State DuBois will present an MBA Forum in the Hillier Building at DuBois campus from 5:30 to 7 p.m. Tuesday, July 15. The forum is designed to address questions from prospective students about the planned MBA degree being made available at the DuBois campus.

Through the combined efforts of Penn State DuBois and Penn State Erie, and with the help of distance learning technologies, students in the DuBois area for the first time will have an MBA program available to them. Penn State Erie has offered the degree since 1985.

Those interested in applying for admission to the program are urged to attend and to bring an undergraduate transcript for an immediate evaluation of qualifications. For more information, contact the Penn State DuBois Office of Continuing Education at (814) 375-4715. Those living outside the immediate calling area can call toll free anytime at (800) 346-ROAR (7627).

News in Brief

Spend a Summer Day

About 6,500 visitors—high school seniors and their families—will visit University Park over July 21, 25, 28 and Aug. 1 for Spend A Summer Day. The annual event, coordinated by the Office of Undergraduate Admissions at University Park, is designed to give high school seniors—many of whom will be seeing

a Penn State campus for the first time—helpful information about the University and a taste of campus life. The event includes tours, presentations and an informational fair.

High school seniors may register by phone to attend. Call the Office of Undergraduate Admissions, at (814) 865-5471.

Student-athletes score high in NCAA study

Penn State student-athletes continue to score significantly higher in graduation rates than the average for NCAA institutions nationally, according to an NCAA survey.

The survey revealed that student-athletes in the University's entering freshman class of 1990-91 had a graduation rate of 81 percent, compared to the 58 percent average for NCAA institutions nationally.

The survey also found that student-athletes at the University Park campus outperformed other Penn State undergraduates by three percentage points. According to the survey, 78 percent was the average six-year graduation rate for all Penn State students in the class of 1990-91.

The University's student-athletes also were well above national norms in football and women's basketball. In football, the Nittany Lions had a graduation rate of 71 percent, compared to the 52 percent NCAA average. In women's basketball, the Lady Lions entering in 1990-91 had a graduation rate of 100 percent, compared to the overall NCAA graduation rate of 67 percent.

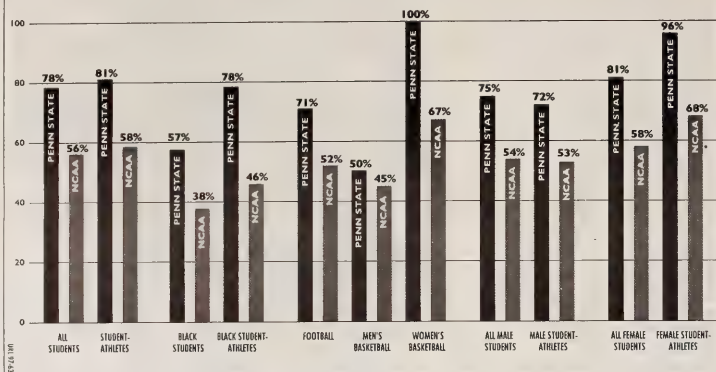
In men's basketball, the graduation rate for the class of 1990-91 was only 50 percent, but that reflects the fact that there were only two freshmen in the entering class that season — one of them graduated, and the other didn't. Even so, the Penn State rate is still higher than the overall NCAA rate of 45 percent in men's basketball.

"This is good news," said John Coyle, Penn State's NCAA faculty representative. "Our goal always has been to graduate our student-athletes at a rate consistent with the rest of the University Park student population, and we are continuing to meet

NCAA GRADUATION RATES

How Penn State Compares

Six-year average graduation rates in NCAA Division I institutions for freshmen class entering 1990-91



or exceed that goal. The findings in the report reinforce the great work of our athletic administrators, coaching staff, faculty, academic support center and, most important, the athletes themselves."

Continuing a seven-year trend, graduation rates for African American student-athletes at Penn State were well above the figure for African American student-athletes in the NCAA survey. Led by African American women athletes at Penn State, who had a perfect 100 percent rate, Nittany Lion and Lady Lion African American athletes posted a graduation rate of 78 percent — 32 percentage points above the 46 percent national average for African American athletes at all institutions.

Penn State's Asian/Pacific Islander and Hispanic athletes in the class of 1990-91 also had 100 percent

graduation rates. Female student-athletes at Penn State logged a 96 percent graduation rate, passing their male counterparts, who graduated at a 72 percent rate.

Among student-athletes who exhausted their eligibility, the graduation rate for the survey sample soared to 92 percent.

NCAA bylaws require the University to provide graduation rate information to recruits and their parents. The NCAA provides a compilation of the data to guidance officers and high school and two-year college coaches. The NCAA bases its survey on graduation within six years of enrollment.

This is the seventh release of institutional graduation rates since national "right-to-know" legislation was passed in 1990.

25-year Awards



PETER BEHRENS



LYNN CARPENTER



CAROL A. GIBLE



JANET M. HAMMERS



VALERIE N. STRATTON



ROGER R. ZELLNER

Observing 25 years of service at the University are: Peter Behrens, assistant professor of psychology at Penn State Lehigh Valley; Lynn Carpenter, associate professor of electrical engineering at University Park; Carol A. Gible, coordinator of Student Affairs and health services at Penn State Lehigh Valley; Janet M. Hammers, staff assistant II, Audio Visual Services at University Park; and Valerie N. Stratton, associate professor of psychology, and Roger R. Zellner, associate professor of visual art, both at Penn State Altoona. From Penn State Harrisburg, those observing 25 years of service but who have no photo to accompany this information, are: Charles A. Cole, professor of engineering and acting director of the School of Science, Engineering and Technology; Robert W. Colman, assistant professor of social science and psychology; Clernmie E. Gilpin, assistant professor of community systems and Afro-American studies; William A. Mahar, professor of humanities and music and director of the School of Humanities; Christopher K. McKenna, associate professor of management science; Winston A. Richards, associate professor of mathematics and statistics; James E. Skok, associate professor of public administration and acting director of the School of Public Affairs; and William A. Welsh Jr., associate professor of engineering.

Alien planet game tests critical reasoning skills

By ALAN JANESCH
Public Information

It is the year 2413, and all nine planets in Earth's solar system are running out of room and resources. You, a pilot in the Intergalactic Exploration Squad, are searching the galaxies for a new planet the citizens of Earth can colonize. Your immediate mission: to determine whether an alien planet you are approaching will support human life and to judge whether it is worth colonizing.

This is the scenario for "Alien Planet," a computer-based simulation game University computer science students are developing, in collaboration with a political science professor, to help teach a political science honors seminar in critical reasoning. Their alien planet, not yet fully functional but carefully worked out in concept, can be a dangerous place.

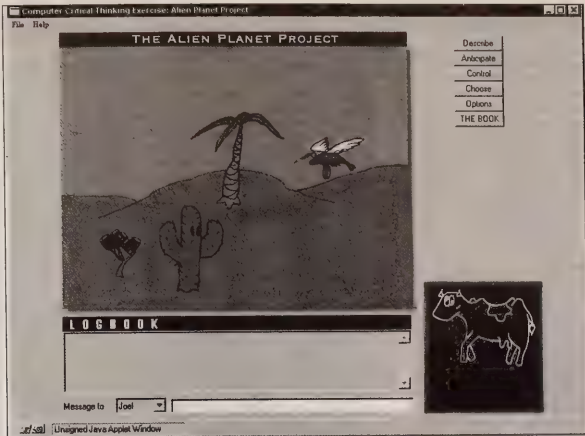
In the air, inquisitive flying lobsters search for their favorite food, the 12-ounce fruits of the beer plant. Moosles, strong moose-like creatures with unusual coloration — plaid with yellow antlers — like nothing better than to catch the lobsters in their antlers, suck out their innards and toss the shells aside. Underfoot, vicious tuna fish — unlike their counterparts on Earth — swim in the sand and attack for no reason.

Into this unfamiliar environment comes the intergalactic pilot, who can send limitless numbers of robot probes onto the planet's surface. The robots can do anything a human being can — test the air for breathability, check the climate or see if something is good to eat. But if the pilot sends out the probe without the right tools, it won't come back with the information the pilot needs to determine if the planet should be colonized.

The game is designed to be fun, but its purpose is serious: to help the students in **Larry Spence's** Political Science 300H class learn principles of critical reasoning. "Critical reasoning involves becoming self-consciously reflective about the ways we know the world," said Spence, director of the Schreyer Institute for Innovation in Learning. "When I was first teaching the course, I would try to come up with situations that would help the students reflect on how they think, on how they make the decisions they make every day. And they'd say, 'Well, I just think.'"

So Spence started to look for situations that were so odd that you couldn't count on your own perceptions. But the ideas he came up with didn't really work. Then, one day, a student had an inspiration. "You know," Spence remembered the student saying, "what you want is a computer game, like one with a planet where things run counter to our ordinary experience. That's how it got started."

At that point Spence approached **Joseph Lambert**, head of computer science and engineering in the College of Engineering. Together, they developed a program through which lower- and upper-division undergraduates would design software packages for



Lobster on the prowl

The computer-based simulation game "Alien Planet" features flying lobsters who consume the fruits of the beer plant. When completed, the game will be used to help teach critical reasoning skills.

"clients" on campus or in the community. (The lower-division students act as software engineers; the upper-division students as project managers.)

Lambert said that projects like "Alien Planet" require students to go off on their own and learn things that aren't part of the normal curriculum. On the one hand, they're learning about the latest developments in graphics interfaces, natural language processing, new programming languages and so on. On the other, they're learning about concepts in political science, teamwork and the ways that projects come together in real life.

"I think the students are learning how hard it really is to come up with a complete project," Lambert said. "Clearly, the students have enjoyed this more and learned more than they would have through a traditional classroom experience."

The project started in spring 1996 and will probably culminate in a finished product in another semester or two — maybe three. At that point the political science students in Spence's honors course will be able to test-drive "Alien Planet" and see how well it helps them learn and practice the critical reasoning skills the course is intended to teach.

Looking back at the work of the past few semes-

ters, project managers **Matt Walnock** and **Dave Soroka** said the toughest part of the job was to keep the "software engineers" focused on working as a group and contributing to the design of the program. Walnock and Soroka, computer science majors, both graduated in May.

"In the beginning," said Walnock, "it was difficult to get across that this wasn't a class where they'd be given some kind of code and have to write it the night before it was due. It was hard to get across to people that they had to design stuff before they could start writing code. It took a semester before they really got a handle on what the problem was. But the following semester they came up with what they wanted the planet to look like."

Spence said that even though the project is taking longer than anticipated, the learning process is at least as important as the final product. "One of the problems, if you can call it a problem, is that the students put almost too much time into the course," Spence said. "They work so hard, and they have learned so many complicated things about computer programs, about new programming languages like Java, about natural language processing — they've got the computer set so that it answers questions posed in standard English. They really like it."

Book Shelf

Robert E. Harkavy, professor of political science, and **Geoffrey Kemp**, director of Regional Strategic Programs at the Nixon Center for Peace and Freedom, are the authors of *Strategic Geography And The Changing Middle East*, published by the Carnegie Endowment for International Peace in cooperation with the Brookings Institution Press.

The authors note that in the aftermath of the Cold War, a new strategic map of the greater Middle East is emerging whose future contours are not yet clear. The future of the Middle East will depend to some degree on the nature of the emerging international

system, they said. With the increasing demand for Middle Eastern oil especially from the booming Asian economies, the region will remain the global strategic prize and point of contention between rival great powers.

Lee Smolin, professor of physics, is author of *The Life of the Cosmos*, a book that contains his new theory of the universe, which has been described as "elegant, comprehensive and radically different from anything proposed before." Smolin's theory is based on his premise that "The underlying structure of

our world is to be found in the logic of evolution." It also is based on recent developments in cosmology, quantum theory, relativity and string theory, which Smolin's clear and articulate text makes accessible to the lay person. The book, published by Oxford University Press, offers an understanding of how these developments may fit together to form a new theory of cosmology that provides a framework for illuminating many intractable problems, from the paradoxes of quantum theory and the nature of space and time to the problems of constructing a final theory of physics.

Summer Sessions programs continue to sizzle

The temperature is climbing and you're looking for a diversion? Look no further than the University Park campus for Summer Sessions programming that includes films, theatre, lectures and concerts.

Remaining events include:

■ July 14
Dance Aerobics Diversions, 8 to 10 p.m., White Building

■ July 15
Music at Noon: Three Musicians La Banjo, Fisher Plaza
Graduate Student Association Explazaganza: "Sabrina," 9 p.m. Fisher Plaza

■ July 16
Pennsylvania Centre Stage: "A Chorus Line," Playhouse Theatre, through Aug. 2
HUB Lawn Films: "Space Jam," dusk

■ July 17
Music at Noon: Arthur Goldstein Jazz Quartet, Fisher Plaza
Summer Science Seminars: Richard Ordway, biology, 3:30 p.m., The Nittany Lion Inn

■ July 18
Ice Cream Diversions: Bavarian Stompers, 7 to 8 p.m., Creamery patio

■ July 19
Graduate Student Association Family Films: "Escape to Witch Mountain," 8:30 p.m., Fisher Plaza

■ July 21
Dance Aerobics Diversions, 8 to 10 p.m., White Building

■ July 22
Music at Noon: Bruce and Jesse, Fisher Plaza

Graduate Student Association Explazaganza: "How to Steal a Million," 9 p.m., Fisher Plaza

■ July 23
Comic Operas for the Movies: "Il Barbiere di Siviglia," 7:30 p.m., Music Building Recital Hall
HUB Lawn Films: "Maverick," dusk

■ July 24
Music at Noon: Redwing, Fisher Plaza

Summer Science Seminars: Karl Mueller, chemistry, 3:30 p.m., The Nittany Lion Inn

■ July 25
Ice Cream Diversions: The Dixie Lions Jazz Band, 7 to 8 p.m., Creamery patio

■ July 26
Graduate Student Association Family Films: "Who Framed Roger Rabbit?," 8:30 p.m., Fisher Plaza

■ July 28
Dance Aerobics Diversions, 8 to 10 p.m., White Building

■ July 29
Music at Noon: Mick and the Mystics, Fisher Plaza

■ July 30
HUB Lawn Films: "Mystic Pizza," dusk

■ July 31
Music at Noon: Red Apple Juice, Fisher Plaza

■ Aug. 1
Ice Cream Diversions: Rich Victor Quintet, 7 to 8 p.m., Creamery patio

■ Aug. 2
Graduate Student Association Family Films: "The Love Bug," 8:30 p.m., Fisher Plaza

For more information, contact the Office of Summer Sessions at (814) 863-4174.



Summer Science Seminar

Martina Morris, associate professor of sociology and statistics, presented a Summer Science Seminar on "Getting the Most Out of Your Data: A Graphical Approach to Measuring Distributional Differences" along with Mark Handcock, associate professor of statistics. There are three lectures remaining in the series.

Photo: Greg Gricio

Smeal, PPG Industries join forces

PPG Industries and The Smeal College of Business Administration have come together to develop an innovative professional development program for PPG's key marketing professionals.

PPG's marketing strategy steering team will join with The Smeal College's Institute for the Study of Business Markets (ISBM) and Penn State Executive Programs to create a series of business marketing courses to be launched this year at PPG sites.

PPG Industries, based in Pittsburgh, is a leading global manufacturer that supplies products for the automotive, manufacturing, construction and chemical processing markets. The company, established in 1883, has about 100 manufacturing facilities, as well as six research and development facilities, worldwide.

The Institute for the Study of Business Markets is an industry-supported center of excellence focused on improving the practice of business-to-business marketing. Founded in 1983, the ISBM is underwritten by more than

40 major corporations and research affiliates worldwide.

Penn State Executive Programs is among the international leaders in leadership and organizational development. Custom programs have helped Fortune 500 firms make major strategic changes. International programs have been delivered in the United Kingdom, Japan, Singapore and Ecuador. As a result of the agreement, ISBM and Penn State Executive Programs will mobilize a faculty of professors from schools including The Smeal College, Babson College, McMaster University, Georgetown University and others.

The program, being developed by Smeal and PPG, will cover areas including value and pricing strategy, segmentation marketing in business markets, new programs for business and industrial markets, competitive analysis and intelligence, and value chain analysis.

Courses, beginning this year, will be offered on a pilot basis with ongoing participation by PPG marketers in the U.S. and abroad.

Statewide labor dispute puts HUB construction on hold

Utility site work for the first phase of the construction project for the new Hetzel Robeson Complex at the University Park campus has been experiencing a delay due to court action involving the state's prevailing wages rates.

The Hetzel Robeson Complex is one of several renovation or construction projects at the University affected by the moratorium, which is holding up more than \$895 million in highway and construction projects statewide. The Palermo/Pattee Library project is not affected by the court action, having begun earlier in the year.

The prevailing wages rates were revised this spring, and a suit was filed against the state Department of Labor and Industry, which oversees the prevailing wage division. Prevailing wages are set by the department based on union scale wages. The rates are used to pay laborers on projects that are at least partially funded by taxes. A decision on the lawsuit is expected at any time from the Commonwealth Court.

A two-year construction project had been scheduled to begin this summer to renovate and expand the Hetzel Union Building (HUB) and house the new Paul Robeson Cultural Center in a single complex at University Park.

The project will be financed with funds generated by a portion of University Park student activity fees, private support, Housing and Food Services and University funds.

■ Pattee Library update

Despite construction, it's business as usual

By WILSON HUTTON
University Libraries

On the morning the East Pattee connector closed to traffic, Jim Petro and his OPP moving crew had a problem. They had seven offices to relocate from East to Central Pattee because of encroaching construction zones. Petro, building services coordinator in the University Libraries' Facilities Department and veteran of many office moves, knew that once the connector was lost, they'd have to take all the furniture out the East Pattee exit, and truck it around to the rear of West Pattee to get it to Central.

In the rain.

They picked up the pace after a worker reported sighting a drywall worker on the floor below. Less than an hour later, a runner brought word: the connector's western entrance was completely framed up. Nothing more could pass through.

"Now, it gets slower," Petro sighed.

A moment later he was back at work, doing it the hard way because that's how it had to be done.

Mention the word "library," and the image that probably comes to most minds is a place of quiet and stillness. But the truth is that a large research library like Penn State's is a hive of activity, even in ordinary times. Hundreds of library faculty and staff move thousands of volumes each day—cataloging, shelving, lending, retrieving and assisting patrons in finding information. But this summer is no ordinary time at Pattee Library with the \$26.5 million construction of a new 110,000-square-foot wing to be called the Paterno Library. Still, all of the Library's routine activities continue unabated.

The Pattee complex has already been divided into two buildings with the closing and demolition of the connector mentioned above. A new, larger connector, complete with a Curtin Road entrance to the library and a circulation desk, will rise in its place. In the meantime, visitors to the Arts and Life Sciences Libraries, which are housed in East, will enter and exit through the building's ground floor entrance.

In the Central Pattee Circulation and Documents areas, the walls are closing in—literally—as the contractor erects protective barriers in preparation for new construction. Some highlights of these improvements are a new circulation center, a new elevator and a new corridor to West Pattee.

The LIAS Catalog Room and the



Separate pieces

Construction workers recently severed the connection between Central Pattee and East Pattee. The demolition of the connector was necessary for the addition of the Paterno Library. Although there are delours and some inconveniences because of the construction, the library resources are still available.

Photo: Greg Grieco

Information Desk have moved temporarily into the former Group Study Room, 105 Central Pattee. The old LIAS Catalog Room has been converted for temporary offices. The book return conveyor will disappear, and a temporary book sorting area will appear in the main lobby, sometime in late July. The construction zone also crosses the West Pattee entrance, to allow for work on the new Central elevator and corridor.

The really big news, of course, is what's happening to East Pattee,

where the five-story wing is going up on the side facing the Palmer Museum. One of the more obvious changes here has been the removal of the wall of windows, and the boarding-up of the first through fourth floors. This work will be completed this month. Once all the windows and the brick facade on that side of East Pattee are gone, the existing building will be ready to connect with the new superstructure of the Paterno addition.

Relocating the more than 80

employees on the fifth floor has been the largest and most complicated of the many office moves this project will require. Acquisitions and Cataloging have moved, for the duration, into the ground floor of Thomas Building. In July, Accounting Operations, Handicapped Services and Binery will move to the West Wing, and the Office of the Dean to 102 Central Pattee. However, it is important to note that none of these offices' mailing addresses will change during these temporary relocations.

No matter how adventurous life may become for the Pattee staff over the next couple of years, the Libraries are committed to minimizing their patrons' excitement level. No service interruptions are contemplated during the two-year construction project and, though some minor inconveniences are inevitable, no collections will be rendered inaccessible. There are two new handicapped parking areas, one on Fraser Road adjacent to West Pattee and the other overlooking the East Pattee construction site and accessible via a driveway opening onto the Weaver Building lot. Both buildings, East and West/Central Pattee, will maintain access for the disabled throughout the construction project.

Summer session hours for Pattee and its various libraries and departments follow:

■ The Arts Library, Documents/Maps, General Reference, Lending Services, Life Sciences Library, Periodicals and Reserve Reading Room/Microforms will be open Monday through Thursday from 7:45 a.m. to 10 p.m.; Friday, 7:45 a.m. to 9 p.m.; Saturday, 9 a.m. to 5 p.m.; and Sunday, 1 to 10 p.m.

■ Interlibrary Loan, Photoduplication, Historical Collections/Labor Archives, and the Rare Books Room will be open Monday through Friday from 8 a.m. to 5 p.m. and closed Saturday and Sunday.

■ The Penn State Room/University Archives will be open Monday through Friday from 9:30 a.m. to 5 p.m. and closed Saturday and Sunday.

■ The Music Listening Room will be open Monday through Thursday from 9 a.m. to 10 p.m.; Friday, 9 a.m. to 6 p.m.; Saturday, noon to 5 p.m.; and Sunday, 1 to 10 p.m.

Want more information? The Libraries maintain a "Construction Site" on the Web featuring up-to-the-minute construction news, photos, project timelines and more. The address is <http://www.libraries.psu.edu/pubinfo/construction/>

Awards

Communications recognizes outstanding work

Several faculty in the College of Communications have been recognized with awards and grants for outstanding performance and forward-thinking.

■ Dean's Awards for Excellence

Richard Barton, associate professor of communications, received the award for Excellence in Teaching, which acknowledges innovation, excellence and dedication. **Jay Calvert**, assistant professor of communications, received the award for Excellence in Research, acknowledging his productivity, publications and quality of research; and **Robert Richards**, associate professor of journalism and law, received the award for Excellence in Research, acknowledging his commitment to enriching the academic life of students and the well-being of the community.

■ Dean's Teaching and Development Grant

Ford Risley, assistant professor of journalism, was the recipient of this grant, which is given to a faculty member each summer for the devel-

opment of new courses and curricula, learning enhancement and other practices related to the improvement of learning and teaching. The grant will allow Risley to further develop his class "Introduction to Online Media," which will create a Web site devoted to reporting how the mass media in Pennsylvania are using online services.

■ Communications Constituent Alumni Society Excellence in Teaching Award

Jeanne Hall, assistant professor of media studies, received the sixth annual Excellence in Teaching Award, sponsored by the College of Communications Constituent Alumni Society. The award honors an outstanding faculty member for exemplary contributions and overall dedication to the art of teaching. Hall teaches the art of cinema and advanced film theory and criticism.

■ Faculty Associates Award

Jeremy Cohen, associate dean for undergraduate education, was one of

several University faculty selected by the Office of the Vice President for Student Affairs to receive this inaugural award, which recognizes those who seek "to strengthen faculty/Student Affairs partnerships, and to pursue activities of mutual interest to faculty and staff in service to Penn State students."

■ Schreyer Institute for Innovation in Learning Grant

R. Thomas Berner, professor of journalism and American studies, was awarded this grant to support his course in Editorial Writing and News Analysis, which introduces advanced journalism students to theory and techniques of writing news analyses, editorials and reviews of culture and the arts. He will create learning groups that will use e-mail to share drafts of editorials for peer criticism and evaluation.

Shari Roberts, assistant professor of media studies, also has received a Schreyer grant to enhance her course in Cultural Aspects of the Mass Media,

which examines the mass media as creators and critics of mass culture in American life and the relationships between the mass media and mass culture.

■ International Council on Distance Education Grant

Robert Baukus, associate professor of advertising, and **Richard Taylor**, Palmer Chair professor of telecommunications and law, were the recipients of an ICDE grant of \$20,000 to conduct a survey of its members on information technology standards. Results of the survey were presented at the 18th ICDE World Conference in State College.

■ Safe Energy Council/ Schumann Foundation Grant

Richard Barton, associate professor of communications, **Virginia Mansfield-Richardson**, associate professor of communications, and **Jorge Reina Schement**, associate dean for graduate studies, have been awarded a grant to study the role of citizen activist groups in 1996.

Professor elected as arts and sciences Fellow

George E. Andrews, Evan Pugh professor of mathematics and head of the Department of Mathematics, has been elected a Fellow of the American Academy of Arts and Sciences.

He is among 515 new Fellows elected this year in honor of their distinguished contributions to science, scholarship, public affairs and the arts.

Andrews, whose work has found major applications in enterprises as diverse as statistical mechanics and computer science, is renowned for his work in number theory and related topics.

He is perhaps best known outside the mathematics community for his discovery of the lost notebook of the late mathematical genius Srinivasa Ramanujan and his work with the formulas it contains. In addition, he is well known among mathematics educators for his involvement in critiquing the current calculus-reform movement.

He is the author or co-author of more than 180 papers published in scholarly journals, the author of four mathematics textbooks and the editor of three books on various topics in mathematics.

Andrews received both bachelor's and master's degrees in mathematics from Oregon State University in 1960. He earned a doctoral degree at the University of Pennsylvania in 1964. He joined the Penn State faculty in 1964 and became head of the Department of Mathematics in 1995.



GEORGE E. ANDREWS

Harrisburg honors faculty and staff

Terry Bosserman, **William Welsh Jr.**, **Richard W. Foxx** and **Joseph J. Cecere** were the award winners at the annual Penn State Harrisburg Faculty and Staff Recognition Program April 17 in the Capital Union Building.

Bosserman earned the Staff Service Award; Welsh was awarded the Excellence in Teaching award; Foxx the Excellence in Research award; and Cecere the Faculty Service award.

A technician with the Office of Instructional and Information Technologies, Bosserman drew praise for his efforts to improve the educational activities on campus through his technology role. He has been on the Penn State Harrisburg staff since 1990.

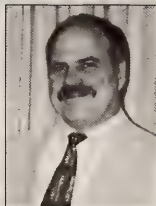
A 25-year member of the faculty in the School of Science, Engineering and Technology, Welsh is a registered professional engineer and has been an active member of the American Society for Engineering Education since 1973 and the American Society of Civil Engineers since 1961. He earned the James Jordan Award for Teaching Excellence at Penn State Harrisburg in 1976.

A member of the faculty in the School of Behavioral Sciences and Education since 1991, Foxx is extensively published and is a frequent presenter at gatherings both in the United States and abroad. A professor of psychology, he also serves as clinical adjunct professor of pediatrics at the College of Medicine in Hershey.

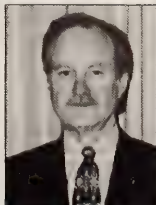
Cecere, an associate professor of engineering and chair of the Structural Design and Construction Engineering Technology program, has been a member of the Penn State Harrisburg faculty since



TERRY BOSSERMAN



JOSEPH J. CECERE



RICHARD W. FOXX



WILLIAM WELSH JR.

1982. His service to the program and the School of Science, Engineering and Technology has resulted in a number of advances, including the donation of estimating software from a Baltimore corporation and other donated support for academic programs. He has been active in national professional organizations and is frequently published.

Awards

Two lauded for commitment to libraries

Betty Nirnberger, a member of the acquisitions services support team, and Joann Warefield, a library assistant in the Life Sciences Library, have been honored for their commitment to advancing the mission of the University Libraries as the 1997 recipients of the Margaret Knoll Spangler Oliver Libraries Award. The award was established in 1995 by Ronald and Eleanor Smith and Robert Oliver in memory of Margaret Oliver, former assistant librarian at Pattee Library. Both Nirnberger and Warefield were recognized for providing exceptional service.

Nirnberger joined the Libraries in 1980 as an input operator to assist with the conversion of the public card catalog to the online catalog system. In 1981, she worked in the Documents Section and was responsible for processing international documents and public service duties. In 1982, she became a senior clerk in acquisitions and two years later was promoted to invoice/accounts coordinator in



BETTY NIRNBERGER



JOANN WAREFIELD

*Warefield has been a library assistant in the Life Sciences Library since 1973.

She began at the Libraries in 1952 as a secretary in the Agricultural Library, where she remained for 10 years. In 1963, she became a part-time library assistant and began her full-time position 10 years later. She has been a member of the Pennsylvania Library Association and its Support Staff Round Table. She also does volunteer work for the American Lung Association and American Cancer Society's "Relay for Life" and has served as president of the Pleasant Gap Lioness Club in 1996.

the same department. Her post was upgraded in 1991 to acquisitions budget analyst, and she became a member of a self-directed work team in 1994.

Currently, Nirnberger serves on the Libraries' Building Coordination Council, LIAS Acquisitions System Development Team and the Collection Development Advisory Group.

Assistant professor earns teacher-scholar award

Karl T. Mueller, assistant professor of chemistry, has been honored by the Camille and Henry Dreyfus Foundation with the Camille Dreyfus Teacher-Scholar Award.

Considered one of the most prestigious prizes in the field, the award is designed to provide external support to young faculty members during the early stages of their academic careers to assist them in continuing their high level of accomplishment in both education and research.

Mueller says the award will provide support for the "development of novel methods of solid-state nuclear magnetic resonance for the investigation of the structure and chemistry of complex materials." Mueller's research group currently is studying the microscopic structure of amorphous solids such as glasses, the conformations of bound biomolecules, and the chemistry of zeolites, which are used for catalytic cracking of petroleum. Mueller plans to use the award to "push forward a number of new experiments, which can be helped by some



KARL T. MUELLER

new equipment, and to fund both undergraduate and graduate research assistantships as well as to allow students to attend meetings where they can discuss their research results with other scientists."

His previous awards include the Camille and Henry Dreyfus New Faculty Award in 1993, the National Science Foundation Young Investigator Award in 1994, and both the Research Corporation Cottrell Scholar Award and the Arnold and Mabel Beckman Foundation Young Investigator Award in 1996.

Mueller earned his bachelor's degree in chemistry, *summa cum laude*, at the University of Rochester in 1985, was awarded a certificate of postgraduate studies as a Churchill Scholar at Cambridge University in 1986, and received his doctoral degree in chemistry at the University of California at Berkeley in 1991. He then held a postdoctoral appointment at the University of British Columbia until 1993, when he joined the Penn State faculty.

Smeal College lecturer awarded for excellence in accounting education

Ralph D. Licastro has been named the winner of the 1997 Lester L. Shonto Award for Excellence in Accounting Education.

A lecturer in The Smeal College of Business Administration's Department of Accounting, Licastro has been a member of Penn State's business faculty since 1972. He also is a partner with Licastro & Riedy CPAs, State College, and has more than 20 years experience in accounting.

Licastro holds a bachelor's degree in mathematics and master's degree in accounting, both from Penn State. In addition to his CPA designation, he also is a certified valuation analyst and a certified fraud examiner.

The award was created in the memory of the late Lester L. Shonto, a 1966 accounting alumnus of Penn State, who went on to a successful career as a partner with the Big Six firm of Price Waterhouse.



RALPH D. LICASTRO

Howard Hughes Medical Institute taps associate professor

Jerry L. Workman, associate professor of biochemistry and molecular biology, has been appointed as an associate investigator of the Howard Hughes Medical Institute, the largest private supporter of biomedical research and education in the United States. He is one of 70 scientists nationwide selected this year and the first Penn State faculty member to receive the award.



JERRY L. WORKMAN

Workman said he will use the award to further his laboratory's studies into the mechanisms of gene regulation.

"In particular, these funds will help to advance our studies into the identification and characterization of protein complexes that disrupt and/or modify the structures of chromosomes and turn on gene expression," Workman said.

Workman's research concerns a central process in gene regulation — how energy-driven teams of molecules function as chromosome-remodeling machines that unlock the cell's genetic codes. A chromosome, the gene-containing structure in a cell's nucleus, is a rope-like molecule of DNA tangled up with proteins. Genes are sections of the DNA that contain a cell's genetic codes.

"Our studies analyze chromosome-modifying protein complexes from human cells and from yeast cells where a powerful genetic system can be exploited to complement biochemistry," Workman said. "These studies should render new insights into the development of cancers and other human diseases that result from aberrant gene expression."

As a Howard Hughes Medical Institute associate investigator employed by the Howard Hughes Institute, Workman will continue to hold a faculty appointment at Penn State and will conduct his research in a Howard Hughes Medical Institute laboratory on the University Park campus. Workman will continue to teach and fulfill other academic responsibilities, but he will have more time and resources to devote to his research program.

According to the institute, Hughes investigators conduct biomedical research in cell biology, genetics, immunology, neuroscience and structural biology and have made significant discoveries related to obesity, AIDS, cancer, cystic fibrosis, muscular dystrophy and other medical problems. The institute employs approximately 330 investigators based at 72 institutions nationwide.

Partings

Anthropology professor retires with emeritus status

From establishing an obsidian hydration dating laboratory, to directing one of the most important archaeological excavation sites in the state, Joseph W. Michels achieved great success early in his career. Michels, professor emeritus of anthropology, has retired from Penn State after 31 years of service.

Michels originally joined the University as an assistant professor in 1965 and was promoted to associate professor by 1969. In 1973, Michels was promoted to full professor, and by 1984 earned the title of associate dean for research and graduate instruction in the College of the Liberal Arts.

One of his early initiatives includes establishing the Obsidian Hydration Dating Laboratory, where changes in obsidian were measured to determine the length of time the volcanic rock had been buried. Also early in his career, Michels directed archaeological excavations at the Sheep Rock Shelter Site of Huntingdon County, a site which ranks as one of the most important in Pennsylvania. Later, Michels, along with his colleague William Sanders, co-directed an excavation of the ancient Mayan center at Kaminaljuyu in highland Guatemala. Funded by the National Science Foundation and other sources, the excavation resulted in the publication of six book-length monographs, numerous doctoral dissertations and one of the most comprehensive archaeological reconstructions of a pre-Columbian chiefdom.

In northern Ethiopia, Michels undertook an extensive archaeological survey of the Tigrine Plateau. The survey resulted in the discovery of hundreds of archaeological sites and eventually led Michels to reconstruct the evolution of political institutions in one of Africa's earliest states.

On the island of Sardinia in the western Mediterranean, Michels excavated the Margine Plateau which led to his development of the currently accepted model of political evolution among the local populations of the ancient Nuragic culture for which the island is famous.

During Michels' five years as associate dean for research and graduate instruction in the College of the Liberal Arts, he assisted in growing sponsored research and college resources dedicated to supporting faculty in their research efforts. Along with his assistant, Irene Patrick, Michels wrote a proposal which eventually led to the awarding of \$1 million in challenge funds to the college.

At the time of his retirement, Michels had authored or edited 11 books and book-length monographs, and is currently working on his 12th. He has published more than 100 journal articles, book chapters, research notes and in-house technical reports. He is an elected Fellow of the American Association for the Advancement of Science, served as president of the Society for Archaeological Sciences, and served as chair of the University Promotion and Tenure Review Committee from 1990 to 1992.



JOSEPH W. MICHELS

Summer Sessions director served University for 31 years

Nancy M. Tischler, director of Summer Sessions and professor of English and humanities, has retired after 31 years with Penn State.

Tischler began her Penn State career at the Capital College in Harrisburg in 1966 as a professor of English and humanities, and later was promoted to head of the humanities graduate and undergraduate programs. At the Capital College, she was one of the original eight faculty members who designed curriculum and a governance structure. While serving on the faculty and executive councils, Tischler helped to draft the constitution for faculty organization and assisted in the preparation of the campus' first strategic plan. As head of the humanities program, she assisted in the design of both the undergraduate and graduate programs, with particular emphasis on the development of the secondary education and business/humanities options.

Tischler has held many roles within the University, and in 1981-82 was elected chair of the Faculty Senate, serving as a catalyst for constructive dialogue. She was instrumental in the effort to convert the University calendar system to the present semester system with a summer session and is credited with the development of vital summer educational opportunities which



NANCY M. TISCHLER

have evolved into today's Summer Sessions. Tischler served as executive director of the Summer Sessions from 1983 to spring 1997.

As a scholar, Tischler has published extensively in her field, with emphasis on the life and works of Tennessee Williams. She has served as editor-at-large for *Christianity Today* and as a member of the editorial board for *Tennessee Williams Review* (currently the *Journal*). She has served as president of both the North American Association of Summer Sessions and Association of University Summer Sessions. Tischler was a member of the Pennsylvania Humanities Council, Conference on Christianity and Literature, and last year was president of the Lambda chapter of Phi Beta Kappa.

She received her B.S. degree in education and her M.A. and Ph.D. degrees in English. As a Fulbright Scholar, she spent a year at the University College of the Southwest in Exeter, England.

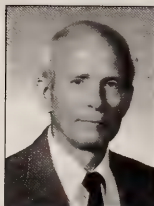
Tischler and her husband, Merle, will continue to reside in Boalsburg, where she plans to continue her work on Tennessee Williams. Currently, she is working with Albert J. Devlin to select and edit letters of Tennessee Williams for publication by New Directions Press in 1999.

Career information management assistant director ends 30-year career

James Philip "Phil" Bucher, assistant director of career information management in Career Development and Placement Services, a division of the Office of Student Affairs, will retire after 30 years of service.

As assistant director of career information management, he was responsible for preparing and distributing of the Post Graduation Activities Survey; managing career resources housed in the Career Information Center; editing several newsletters, including *Career Trends*, *Career Success* and *Career Perspectives for Faculty*; and serving as the director of the Center for the Review of Career Information which reviews commercial career resource materials and publishes resource reviews. Bucher also provided placement advising, conducted outreach programming and coordinated career and workforce information.

For many years, Phil taught job placement skills and strategies both for resident instruc-



JAMES PHILIP BUCHER

tion and as a one-credit correspondence course through Independent Learning. He also served as liaison to the College of Agricultural Sciences since 1977.

Before becoming the assistant director, Bucher coordinated the University's on-campus recruitment process, one of the largest in the nation. He also served as a counselor at Career Development and Placement Services and was responsible for public school placement.

Bucher began his career in June 1967 as an administrative assistant in the Department of History. He has authored numerous articles about career trends and workforce information in professional journals and magazines. He also published a series titled *Careers in Agriculture*.

He earned a bachelor of arts degree in liberal arts from Penn State in 1957 and a master's degree in counselor education, also from Penn State, in 1969.

Partings

Three depart after long-standing careers at ARL

Accounting office head
had 33 years of service

Lee E. Hall, head of the accounting office in the Applied Research Laboratory, retired after 33 years of service. In 1964 he began working at ARL as the assistant to the chief accountant. Before starting this position, he worked at the General Accounting Office in Washington, D.C., for two years, then was employed by IBM for another two years. At one time, Hall was in charge of ARL's accounting and contractual operations. He retained responsibility for the omnibus contract after the formation of the Contracts Office and was involved with renegotiating the last four omnibus contracts with the Navy.

Hall received his bachelor's degree in accounting from Penn State in 1958. Ten years later, he earned his master's degree in business administration from the University.

Hall and his wife, Edie, have two children and one granddaughter. When he retires, Hall, an avid gardener, plans to devote more time tending his vegetable garden. He has raised up to 400 pumpkins on his plot of land (although he did not grow any last year), and once grew an "Atlantic Giant" pumpkin that weighed 235 pounds. His other plans include performing volunteer work, keeping busy in his woodworking shop and attending Lady Lions basketball games.



LEE E. HALL

Head of drafting, design
co-founded Free University

Roger F. Snyder retired as head of the drafting and design department in the Applied Research Laboratory after 36 years of service.

He began his association with the lab when he was an undergraduate mechanical engineering student at Penn State. Upon graduating with his bachelor's degree, Snyder accepted a faculty appointment in 1961. He helped design undersea vehicles for oceanographic research as well as transducers.

His design efforts for undersea vehicles led to two patents and five published articles. In addition, he occasionally taught machine design classes for the Department of Mechanical Engineering and was one of the founders of the Free University, which provided alternative education at no cost.

In 1988 he became head of the drafting and design department.

Throughout his life, Snyder has supported the community through his volunteer work for the State College Presbyterian Church. One of his greatest enthusiasms is antiques. He has been in the retail antiques business for 10 years, and helped found the Nittany Antiques Emporium on the Benner Pike in State College. After retiring, Snyder will run a new antiques co-op on the Benner Pike called Apple Hill Antiques.



ROGER F. SNYDER

Research associate began
State College Area YMCA

Joseph Wakeley Jr., a research associate at the Applied Research Laboratory, retired after nearly 32 years. During his tenure at ARL, he conducted research and development supporting the U.S. Navy technological base and system development torpedo programs.

Wakeley has published papers on underwater acoustic propagation and underwater explosive time and frequency signatures.

Wakeley guided the research of undergraduate honor students and graduate students in acoustics, mathematics and computer science. At the same time, he held a joint appointment as research associate and assistant professor of acoustics.

He received a bachelor of science degree from the University of Pennsylvania and a master of science degree from the Polytechnic Institute of Brooklyn, both in electrical engineering.

He and his wife, Esther, have five children — David, Scott, Tim, Joe and Marion — and 13 grandchildren.

A resident of State College, Wakeley served as a swimming coach for the Centre Region Parks and Recreation Department, founded the State College Area High School Boys and Girls Swimming Team, founded the State College Area Family YMCA, was elected to the State College Borough Council and served two years as council president.



JOSEPH WAKELEY JR.

McKeesport learning center
director retires after 25 years

Barbara McCollum Hart at Penn State McKeesport recently retired after 25 years of service.

As director of the Campus Learning Center, Hart is known as a compassionate yet firm adviser who helps students to help themselves. Under her supervision the Learning Center has provided service to hundreds of Penn State McKeesport students over the years.

Since its inception in September 1984, the Learning Center has meant the difference between success and failure to many of the students who have used this resource. For other students, it has meant an improvement of grades and overall improvement of their GPAs.

Hart began her service as a faculty member in the College of Health and Human Development and became involved with advising students in the Advising Center. She was appointed administrative assistant to the campus executive officer and coordinated special projects, with an emphasis on state and federal programs. In addition, she oversaw all aspects of the commencement program each spring.

From the University of Pittsburgh, Hart holds a master's degree in public administration and urban affairs and a doctoral degree from the Graduate School of Public and International Affairs. She earned a bachelor of arts degree in sociology and political science from Cheyney State College.

Assistant to dean served 33 years

Everett P. "Tiff" Tiffany, has retired as assistant to the dean in the College of Earth and Mineral Sciences after 33 years of service.

Over the years, Tiffany has contributed to the welfare of the college in numerous ways. He originated and managed the Dean's Freshman Scholarship Program, the Wilson Loan Program, Wilson Scholarship Program and the Wilson Fellowship Program, and developed the many awards and gifts given by the college to its alumni, faculty, staff and students.

As human resources representative, Tiffany helped hire, promote, recognize and assist faculty and staff members for 28



EVERETT P. TIFFANY

years. He helped to establish and organize the Staff Advisory Committee, developed the parking policy to allocate spaces to faculty and staff, proposed the first college blood drive, developed and implemented a new statement of roles and responsibilities for fixed-term faculty and established the college staff group.

Before coming to the College of Earth and Mineral Sciences in 1968, Tiffany worked in the auditing

department of the University.

He received his undergraduate degree from Penn State in 1961 in business administration and a master's degree in public administration in 1976.

Appointments

New associate dean to assume Summer Sessions responsibilities

Ingrid M. Blood has been appointed associate dean for undergraduate education in the Office of Undergraduate Education, effective Aug. 15. Blood will assume responsibilities connected with the Summer Sessions, with emphasis on stimulating, facilitating and advancing academic programming. The new strategic plan for the Summer Session envisions new approaches and innovations in learning and teaching. She will also engage in efforts to improve the undergraduate teaching and learning environment across the University throughout the year. Blood replaces Nancy M. Tischler, executive director of the Summer Sessions, who recently retired.

Before coming to Penn State, Blood held faculty positions at both Miami University in Ohio and Radford University in Virginia. In 1988, she assumed her present position as associate professor in the Department of Communication Disorders at Penn State. In 1995, she was appointed professor-in-charge of the graduate program. She also is an affiliate faculty member, Graduate Program in Acoustics in the College of Engineering.

Blood has received numerous distinguished postdoctoral fellowships and awards relating to the advancement of leadership and has been widely recognized in the field of communication disorders.

Blood has a bachelor's double-major degree in communication sciences/disorders and reading instruction from Montclair State University and M.A. and Ph.D. degrees in communication disorders from Bowling Green State University, Ohio.

Altoona welcomes director of Continuing and Distance Education

William G. Curley has been named director of Continuing and Distance Education at Penn State Altoona. In this position, he will provide creativity, innovation and leadership to the planning, marketing and implementation of a comprehensive program of credit and non-credit programs that meet the professional development needs of Penn State Altoona's five-county service area, including Blair, Bedford, Cambria, Huntingdon, and Somerset counties.

Before joining Penn State Altoona, Curley served as acting campus executive officer at Penn State Mont Alto. Before assuming that position, he was director of Business Services and Continuing and Distance Education at Penn State Mont Alto. Previously, he had worked as both an area representative and conference coordinator at the University Park campus. He has been working for Penn State since 1985.



INGRID M. BLOOD

Curley has a bachelor's degree and a master's degree from Penn State and is currently working on his doctorate in workforce education and development.

Continuing and Distance Education adds statewide program director

Ed Donovan has been appointed to the new position of director of statewide programs in Continuing and Distance Education (C&DE). In his new role, he will focus on the development of new credit and noncredit continuing education programs to be delivered at campuses and centers University-wide.

Before assuming this post, Donovan had been director of continuing education at Penn State McKeesport since 1989. During his tenure, the campus' continuing education program grew annually to become one of the largest at the University. The McKeesport campus also was one of only two campuses to operate an off-campus center for continuing education programming.

He joined the University staff in 1979 at Penn State Beaver in its continuing education office, then moved to the McKeesport campus in 1980. In 1987, he was the founding director of Penn State's Pittsburg-Burgh Center for Continuing Education.

Donovan is the recipient of several University awards, including the first Vice President's Award for Outstanding Outreach and Marketing in 1990. Three of his programs: The Emerging Woman Manager, On-site Business Certificate Program for Consolidated Natural Gas and CITE: Continuous Improvement to the Environment for USSteel, have been honored with National University Continuing Education Association awards.

He earned a bachelor of arts degree from Edinboro University of Pennsylvania and a master's degree in adult education from Penn State.

Liberal Arts welcomes three in Alumni Relations and Development

Three people have been recently named to assist with various duties in the College of the Liberal Arts.

Mary Kay Hort has been named the development assistant in the Alumni Relations and Development Office in the college. She will help develop fund-raising programs, support the various programs that advance the College of the Liberal Arts, and write proposals and other materials. In addition, her responsibilities include working to identify and develop prospects as well as solicitation and cultivation strategies.

Hort joined Penn State in 1994 as a writer in the Office of Development Communications and Special Projects. She wrote and edited proposals, fund-raising

brochures, periodicals and other publications such as *Philanthropic Update*. Before joining the University, she was an account executive at the Weightman Group in Philadelphia, where she managed accounts such as Scott Paper, Tastykake and Tidy Cat.

A State College native, Hort received her bachelor's degree in English from Penn State in 1986.

Marc McMullin has been named assistant to the director for alumni relations in the Alumni Relations and Development Office in the college. He will work with the Alumni Society president and board of directors, the college's development staff and the Penn State Alumni Association with managing and providing leadership for the college's alumni relations program. McMullin will initiate, plan and manage special relationships with alumni to increase their involvement with the college.

Previously, McMullin served as an assistant director in the Office of Constituent Relations at Penn State, creating, planning and implementing special events for the president's office, Board of Trustees and development staff. McMullin also assisted with the management of University development's stewardship operation.

Before coming to Penn State, McMullin was a development assistant at West Chester University, working with the director of athletic development in the management of an annual giving program, a volunteer executive committee and the student giving program.

After graduating from the Bellefonte Area High School, McMullin served six years of active duty as a U.S. Marine combat engineer, and was a cum laude graduate with a B.A. in communication studies from West Chester University.

Donna E. Williams has been appointed coordinator of college relations in the Alumni Relations and Development Office in the college. She will be responsible for planning, developing and implementing public relations programs, writing and producing publications and various media materials, and publicizing major gifts and grants to the college.

Before coming to Penn State, Williams was director of public relations at Centre Community Hospital in State College for eight years, and director of development and public relations for four years.

She holds certification from the Healthcare Marketing and Public Relations Association of the American Hospital Association, and attended the Art Institute of Pittsburgh, Penn State and Central Michigan University. She has served on committees and the board of the American Cancer Society, and on the board of directors of Centre County's internet site, The Country Store.



MARC McMULLIN



ED DONOVAN



WILLIAM G. CURLEY



MARY KAY HORT



DONNA F. WILLIAMS

DNA evidence offers proof that Neanderthals were not our ancestors

By ANDREA ELYSE MESSER
Public Information

A team of U.S. and German researchers has extracted mitochondrial DNA from Neanderthal bone showing that the Neanderthal DNA sequence falls outside the normal variation of modern humans.

"These results indicate that Neanderthals did not contribute mitochondrial DNA to modern humans," said Mark Stoneking, associate professor of anthropology. "Neanderthals are not our ancestors."

The research also reaffirms the origins of modern humans in Africa. The research team includes Matthias Krings, graduate student, and Svante Paabo, professor of zoology, University of Munich; Ann Stone, postdoctoral fellow, University of Arizona; Ralf W. Schmitz and Heike Krainitzki of Rhineland Museum, Bonn, Germany; and Stoneking.

Current theory holds that Neanderthals became extinct only 30,000 years ago and co-existed with modern humans in Europe. The team, however, found that Neanderthals and modern humans diverged genetically 500,000 to 600,000 years ago, suggesting that though they may have lived at the same time, Neanderthals did not contribute genetic material to modern humans.

Since 1991, an interdisciplinary project of the Rhineland Museum, headed by Schmitz, was focused on the Neanderthal-type specimen. This specimen



Mark Stoneking, associate professor of anthropology, is part of the research team that has proven through studies of DNA that Neanderthals did not evolve into modern humans.

Photo: Greg Grieco

was found in 1856 near Dusseldorf, Germany. As a part of this project, a sample was removed for DNA analysis.

"The ability to extract DNA from ancient bone is dependent on many factors, including preservation, temperature and humidity," said Stoneking.

Paabo previously showed that even if extracting ancient DNA is possible, it tends to be damaged and degraded, yielding only short fragments. The researchers used a method of overlapping short strands of DNA to obtain a mitochondrial DNA sequence of 378 base pairs. To ensure that errors caused by damaged DNA were not incorporated into the sequence and that modern human DNA did not contaminate

the samples, the researchers ran multiple extractions and amplifications.

They also sent a sample to Penn State's Anthropological Genetics Laboratory where Stone, then a Ph.D. candidate at Penn State, ran a parallel extraction and amplification of the DNA.

The researchers compared the Neanderthal sequence with 2,051 human sequences and 59 common chimpanzee sequences. They found that the differences in Neanderthal DNA occurred at sites where differences usually occur in both humans and chimps.

"The changes reflect the evolutionary pattern typical of mitochondrial DNA sequences of living humans and chimpanzees, not that of random damage or degradation," said

Stoneking. While Neanderthals inhabited the same geographic region as contemporary Europeans, the observed differences between the Neanderthal sequence and modern Europeans do not indicate a closer relationship to modern Europeans than to other contemporary human populations," he said.

The researchers are confident with their results, but they caution that they are derived from only one individual. They also warn that DNA may be difficult to extract from other specimens.

While the results indicate that Neanderthals did not contribute mitochondrial DNA to modern humans, it is still possible that they contributed other genes.

Ocean circulation thought to moderate Greenland temperatures

Going against generally accepted models, Greenland has been cooling during the few thousand years before this century, and surprisingly, winters were cooling more than summers, a researcher has found.

Accepted theory holds that variations in the earth's orbit control a good portion of the seasonal warming and cooling of the planet. These cycles alter the difference between summer and winter.

Currently, the Earth is closer to the sun during the northern hemis-

phere winter than it was a few thousand years ago, and farther from the sun during the northern hemisphere summer, so summers should have been cooling while winters warmed.

"It's a nice story, but unfortunately, it doesn't seem to account for the past Greenland climate record," Richard B. Alley, professor of geosciences, said. "Information from the Greenland ice cores does show that the summers have cooled, but also that the winters have cooled."

Because the ice cores indicate that

the winters have cooled, some other cause must be found. Alley suggests that ocean heat transport may be the key.

"If, over the last few thousand years, the ocean's transfer of heat to the area around Greenland has declined, then this would be a simple explanation for the overall cooling," Alley said. "This is not unlike what happens with the ocean circulation when rapid cooling events have occurred in the past, except more slowly."

Harrisburg to help develop air conditioners for electric buses

The technology to provide air conditioning units for electric-powered buses is being developed by Trans/Air in Dallastown in cooperation with Penn State Harrisburg.

Andrew Lau, associate professor of engineering, and Peter Idowu, associate professor of electrical engineering technology, have teamed with the York-area manufacturing firm to produce an advanced climate control system specifically for electric buses. The ultimate goal of the project is to produce a genuine electric climate control system that will totally satisfy the electric bus builders' and users' needs. This presents a unique challenge unlike conventional vehicle air conditioning, which uses the engine to power the cooling system.

The second goal is efficiency because the on-board energy is limited, therefore the climate control system must use as little energy as possible. Engine-driven systems are not generally designed for efficiency. The third goal is to create a lightweight system, which will help to ensure high efficiency. It is also important that the first prototype use heat pump heating and is environmentally friendly, totally self-contained, and easy to install and service.

The main benefit of this technology is that there are no pollution emissions. California and Tennessee are two states currently using the electric buses, which were initially marketed four or five years ago. Lau said that if incentives emerged in Pennsylvania, we could possibly see them in use in five years.

"The other thing that's important is that they don't use gasoline," Lau said. "They use electricity generated with coal or nuclear energy. So it's a roundabout way to run a vehicle off coal or nuclear power."

The \$283,000 project is partially funded by the Ben Franklin Technology Center of Pennsylvania, which is a state-sponsored program to promote the development of new technology and business within Pennsylvania.

Trans/Air is a relatively small company with about 75 employees.

ATHLETICS

A regular column provided by Intercollegiate Athletics

Sears Directors' Cup

The Penn State athletic program once again showcased its prowess across the board with a fourth straight top 20 finish in the Sears Directors' Cup All-Sports Competition.

The fourth annual survey, an all-sports competition among Division I institutions, is sponsored by Sears, Roebuck & Co., and NACDA, the National Association of Collegiate Directors of Athletics. The Nittany Lions and Lady Lions earned 520 points in the competition, which awards 64 points for a team which finishes first in an NCAA Championship, 63 points for second and so on.

Stanford earned its third title in the four years of the competition with 1084.5 points while North Carolina placed second (804) and UCLA placed third (802). The top three were followed by Nebraska (780.5) and Florida (763) to round out the top five.

CBS will carry game

CBS Sports has announced plans to nationally televise Penn State's football game at Louisville on Sept. 20. The non-conference game will kick off at 12 p.m. in Cardinal Stadium. It is Penn State's second announced television appearance for the 1997 season. The season opener, Sept. 6, with Pitt will be aired regionally by ABC-TV at 3:30 p.m.

Academic All-Americans

Three more Penn State student-athletes have been selected to Academic All-America teams. Men's volleyball National Player-of-the-Year **Ivan Contreras** was chosen to the GTE-CoSIDA at-large men's spring team and javelin thrower **Becky Gusic** to the women's at-large team. All-America **Jamie Cook**, a decathlete, also won his way onto the track Academic All-America squad.

For the latest information on Penn State Sports, visit the official Intercollegiate Athletics site on the Web at <http://www.psu.edu> (click on sports)

We're on the Web

The *Intercom* is available online every Thursday during the academic year at <http://www.psu.edu/ur/> *INTERCOM/Home.html*. During the summer months, it is available every two weeks, beginning on the Thursday it is published.

In addition, back issues of *Intercom* from 1995 on, can be searched online at <http://www.psu.edu/ur/>. Hit the "Search" button.



Quality time

Charlie Moritz, a 1991 alumnus, returned to the University Park campus recently with his family, Elizabeth, left, and Geri. The Moritz family traveled from Houston for an acoustics seminar, but couldn't resist a stop at the Penn State Creamery for some ice cream.

Photo: Greg Grieco

Gannett Foundation gives college \$250,000

The Gannett Foundation has given the College of Communications \$250,000 to renovate space and purchase state-of-the-art technology for a new multimedia classroom — the "Gannett Foundation Classroom." The gift, which will be spread over a three-year period, is the largest ever given to a university or college by the current Gannett Foundation.

The gift marks the first step toward the fulfillment of the college's goal to consolidate and update its production

and audio facilities and equipment. It also will serve as leverage for future gifts toward the creation of a new, unified production facility that will enable the college to better prepare its students for career opportunities in the converging fields of journalism and telecommunications.

The Gannett Foundation Classroom, which will serve as a newsroom, will support the college's online media course and provide more sophisticated training and opportunities for upper-

division students. The college will purchase new computers, up-to-date hardware and software, digital editing equipment, fiber optic cable wiring to adjacent audio and video studios and appropriate wire service feeds. The new classroom is expected to be completed during the 1997-98 academic year.

The Gannett Foundation is a private foundation sponsored by Gannett Co. Inc. In 1996, grants and employee matching gifts totaled nearly \$6.4 million.



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Volume 26, Number 36

What is a "Nittany Lion?" These two have all the answers

By ANNEMARIE MOUNTZ
Public Information

Quick: Where and by whom was the idea for the Nittany Lion mascot first verbalized? Who sculpted the Nittany Lion Shrine?

If you said **Joe Mason** at Princeton and **Heinz Warneke**, congratulations. You're a true, blue-and-white Penn Stater. And if you're like most Penn Staters, you can't get enough information about the University's beloved lion.

If you're not as up on Nittany Lion trivia as you'd like to be, don't worry. University librarians **Jackie R. Esposito** and **Steven L. Herb** have worked hard to put the facts you seek at your fingertips.

Esposito and Herb scoured the University Archives in Pattee Library and interviewed dozens of people connected with Penn State to find out everything they could about the University's famous symbol. Their efforts produced *The Nittany Lion: An Illustrated Tale*, to be published by the Penn State Press in September.

"What is 'Nittany'? What is the Nittany Lion? Why is it Penn State's mascot? Where did it come from? Part of the reason this book got started was to answer some of these questions," said Esposito, senior assistant librarian and assistant University archivist. "People want to know what this Nittany thing is. And you can't just say, 'It's this,' because it's not just one thing."

Most people who use the University archives expect to be able to name a topic and be handed all the information the library has relating to



Hangin' out

Jackie Esposito and Steven Herb with their good friend, the Nittany Lion Shrine.

Photo: Greg Grieco

See "Nittany" on page 2

University to hire 100 new faculty

By LISA M. ROSELLINI
Public Information

In 1994, **Richard Kopley**, then an associate professor of English at the DuBois campus, was asked to take on a three-year assignment as an administrator. Now, in 1997, his term as associate head of the Department of English for the Commonwealth Educational System has expired, and Kopley is returning to his home base—to again teach students full time.

"I'll be writing a lot fewer memos, doing less traveling, fewer evaluations and the focus will be on the classroom in a way that it hasn't been for the last three years," said Kopley, who has taught a class each spring at University Park. "There will be a lot less pressure, but not less time expended. I expect to enjoy it totally."

Kopley's return—like that of numerous other University administrators—is just one step in a mixed approach to beef up the number of faculty in Penn State's classrooms. According to President **Graham B. Spanier**, the equivalent of 21 additional

See "New faculty" on page 3

Veteran CNN newsmen to give Aug. 9 address at summer commencement

A familiar face on the all-news network CNN will be seen by those receiving undergraduate degrees at University Park, while the director of the Life Sciences Consortium will address master's and doctoral degree recipients.

The University will hold 1997 Summer Commencement ceremonies for 1,494 undergraduates and 906 graduate degree students at the University Park campus on Saturday, Aug. 9. An estimated 219 students will graduate with associate degrees, 1,275 with baccalaureate degrees, 673 with master's degrees and 233 with doctorates, for a total of 2,400 graduates.

Undergraduate ceremonies will be held at 10:30 a.m. Saturday, Aug. 9, in The Bryce Jordan Center. The commencement speaker will be **Charles Bierbauer**, senior Washington correspondent for CNN and Penn State Distinguished Alumnus and Alumni Fellow.

See "Commencement" on page 3

Inside



It's time again

Ag Progress Days, featuring more exhibitors and the latest in agricultural advances, is again set to make its appearance at the **Russell E. Larson Agricultural Research Center** on Aug. 18-20. For more information, see page 8.



Picnic season

In the heat of summer, bacteria lurks in fun foods and could prove harmful for those who aren't cautious. For tips on better barbecuing and food handling, see page 15.

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Nittany

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the subject. But that's not how it works, Esposito said.

"You give them what you have, usually bits and pieces, and they look at it and say 'But this isn't everything.' In an archives, researchers have to look here and there, essentially putting together pieces of a puzzle, instead of getting a book and having all the information handed to them in one place."

In an effort to answer the questions about the Nittany Lion more quickly and easily, Esposito started compiling all the different variations of the theme. Her first thought was to put together a small booklet similar to those at historic sites, but also to include some stories for children. Because Herb is a specialist in children's literature and a storyteller by profession, he was a natural partner in the process. That process included a lot of detective work.

"This is a real interesting combination of traditional academic scholarship with creativity and storytelling," Herb said. "We're really doing something, a little different here. It's a trade book, with a scholarly background. The amount of time we spent in the archives for this book is comparable to the time a historian would spend in the archives on a biography because there was a lot to look at, a lot of different stories to put together."

Most of the information in this book existed in some form somewhere, but Esposito and Herb have woven it together into a connected tapestry and in the process discovered things that didn't exist before outside of somebody's head or scrapbook.

Herb, who is not an archivist, found the information-gathering process a learning experience in itself.

"I imagined the archives as a pile of stuff. If you went through it long enough, you'd establish all the facts and everything would be there and you'd write a story," he said. "Well, it's more like an unraveling shirt. You find an envelope full of facts, pull on one and it's like a thread that never, ever stops. In some ways, it's both wonderful and infuriating. It's exciting because there's always something new to discover, but I'm still asking questions and we just can't get resolution for everything."

For example, they found that sometimes photos didn't match up with the facts they uncovered.

"We have a story that seems incontrovertible and then we have a picture that contradicts it," Herb said. "We have them both in the book, hoping someone will figure it out and let us know."

The two authors wouldn't divulge the contradicting information.

Another mystery is a missing mascot.

"Some people think there's a mascot directory somewhere. But it's the first time anybody's put together as complete a list as possible, but the 1961



Mascot on the move

The Nittany Lion mascot, which was created in 1904 in the mind of freshman baseball player Joe Mason, has become a fixture at Penn State sporting events.

mascot's identity is missing," Herb said. "Now there has to be someone who knows who the lion was. We asked the lion before 1960, 'Do you remember who took over after you?' No. We asked the lion after (1962), 'Do you remember who you took over from?' No. The cheerleader at the time? No. No *Collegian* article. No mention, nothing. Isn't that weird? It's almost like we have to publish the book to get that answer."

Esposito offered some explanations, including the possibility that there wasn't a mascot that year, or that a group of fraternity brothers took turns donning the suit.

"For a long time you weren't supposed to say who you were," Esposito said. "That was part of the myth of the man in the suit. Some people took that very seriously."

Esposito and Herb would like nothing better than to see *The Nittany Lion: An Illustrated Tale* in every Pennsylvania library.

"We spent a lot of time on a pretty extensive index and tried to organize it in such a way that even though it's a collection of stories, it would still be a reference work," said Herb.

"It's written so that if you don't know Penn State history you can fol-

low the story and keep up with the social history that's going on at the time," Esposito said.

Still, the appeal to Penn State alumni is not lost on them.

"There are a lot of alumni and I think they're the ones who are most interested," Herb said.

Esposito and Herb are acutely aware that the details in their book will be scrutinized. Although they spent countless hours trying to verify every fact, they're sure they must have missed something.

"We're assuming there's somebody out there who remembers it all and will turn up after the book comes out," Esposito said.

The book will help Esposito answer all those questions she fields about the Nittany Lion. She also hopes people are entertained learning things they thought they knew.

Herb will be happy if he goes into O.W. Houts, a State College variety store, and sees people staring at the bronze lions outside.

"If I see people looking at those lions and petting them, I'll know it was because of us," he said.

Want to know why? Read the book.

The Boast at Princeton

The Nittany Lion was born on a bitterly cold April day in 1904, but not in Happy Valley where he reigns as king. His life began where many of Penn State's sports teams have faced their toughest hurdles — on the road.

The Penn State baseball team awoke that blustery Wednesday morning about to face their strongest opponent of the season. Expectations had not been high for a team that returned only three varsity players to the diamond, and after an opening game win over the Bellefonte Academy at home, the eastern road trip was proving difficult. The men from State were shut out by West Point (1-0) on the 16th and Manhattan College (6-0) on the 18th, all but wiping out any joy they had obtained by beating Bloomsburg Normal in their first contest as the visiting team.

A hard-fought, one-run victory at Fordham the day before had brightened their spirits and now it was the 20th, the final game of the eastern leg of the season, and that meant Princeton. They had beaten Fordham and held their own at West Point, but the Princeton baseball team was tough to beat anywhere and on their own field they were formidable. The Pennsylvania State College nine were tired from all that train travel and looking forward to returning home, but first they had to face the Princeton Tigers.

It is hard to gauge just how certain the Princeton nine were of winning the game that day, but during a morning tour of campus for the Penn State team, a couple of tour guides couldn't resist a pre-game boast. Third baseman Joe Mason remembered it this way four decades later at the dedication of the Nittany Lion Shrine:

"As you students well know, sophomores are generally pretty cocky chaps, and when these two escorted us into their beautiful gymnasium, they stopped us in front of a splendid mounted figure of a Bengal tiger. One chap spoke up: 'See our emblem, the Princeton Tiger, the fiercest beast of all.' An idea came to me, and I replied, 'Well, up at Penn State we have Mount Nittany right on our campus, where rules the Nittany Mountain Lion, who has never been beaten in a fair fight, so Princeton Tiger, look out.'"

— From *The Nittany Lion: An Illustrated Tale* by Jackie Esposito and Steven Herb

Commencement

continued from page 1

Bierbauer covers critical public policy issues including the federal budget, tax reform and health care. As CNN's senior White House correspondent for nine years during the Reagan and Bush administrations, Bierbauer has spent more years at the White House than any U.S. president except Franklin D. Roosevelt. He has traveled with presidents to all 50 states and more than 30 nations and has covered four presidential election campaigns since 1984.

Bierbauer joined CNN in 1981 as its defense correspondent. From 1985 to 1995 he was the host of CNN's "Newsweek Saturday," a weekly report featuring in-depth interviews with leading newsmakers. He holds a bachelor's degree in journalism and Russian and a master's degree in journalism from Penn State.

Graduate School ceremonies for Penn State master's and doctoral recipients will be held at 2 p.m. Saturday, Aug. 9, in Eisenhower Auditorium. The commencement speaker is Nina V. Fedoroff, professor of biology, director of the Life Sciences Consortium, director of the Penn State Biotechnology Institute, and holder of the Verne M. Willaman Chair in life sciences.

Fedoroff is known for her research on the molecular biology of mobile genetic elements in plants and on the developmental regulation of gene expression. She is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the Phi Beta Kappa and Sigma Xi honorary societies, the board of directors of the Sigma-Aldrich Corp., the international advisory board to the Engelhardt Institute of Molecular Biology in Moscow, and the editorial boards of *The Proceedings of the National Academy of Sciences*, *The Plant Journal* and *Perspectives in Biology and Medicine*.

Fedoroff earned a bachelor's degree in biology and chemistry, summa cum laude, at Syracuse University and a Ph.D. in molecular biology at Rockefeller University.

Degrees for both ceremonies will be conferred by President Graham B. Spanier.



CHARLES BIERBAUER



NINA V. FEDOROFF

Grad student receives NASA funding

Harrisburg resident William Nordai, a student in Penn State Harrisburg's graduate program in environmental pollution control, has earned a research grant through the National Aeronautics and Space Administration (NASA) to study in-vessel composting for processing and recycling solid waste in outer space.

NASA's Graduate Student Researchers Program will fund Nordai's tuition and research needs as he completes requirements for his master of engineering degree and investigates "Composting Plant and Human Wastes in a Controlled Ecological Life Support System."

Samuel McCintock, associate professor of environmental engineering, will write the proposal to NASA.

New faculty

continued from page 1

faculty positions will result from shifting academic personnel with administrative duties back to the classroom. But that's only one route to easing the University's student/faculty ratio of 18.4 to 1.

Spanier, who during his 1996 state-of-the-university address called the hiring of new faculty "Penn State's highest priority," recently unveiled plans to add 100 new faculty members to the ranks — 60 of whom will come on board during this academic year.

Like Vincent Crespi,

Crespi, a postdoctoral researcher in physics at the University of California, Berkeley, will come on board as an assistant professor of physics on Aug. 15. He is part of the first wave of 25 new faculty who will begin appearing on campus this fall, hired with the help of \$1.3 million in internal budget reallocations. As part of Penn State's 1997-98 state appropriation request, Spanier was asking the Legislature for ongoing funding for 50 additional faculty positions, but the \$2.9 million needed for the hirings didn't materialize this year. Despite this, Penn State made good on its promise to reallocate funds for 25 new positions.

"Data show that Penn State's student/faculty ratio is higher than those for Pitt and Temple," Pitt's ratio is 14.5 to 1 and Temple's is 16.9 to 1," Spanier said referring to the most recent report from the Joint State Government Commission, which collects information every year from state-owned and state-related universities. "It would take approximately 650 additional faculty positions to bring our student/faculty ratio to the average of Pitt or Temple."

Lack of state funding plays a serious role in the problem, Spanier said. Within Pennsylvania, Penn State receives a lower educational and general appropriation per student from the state than any other public college or university. According to the University's Office of Budget and Resource Analysis, in 1995-96 — the most recent year for which comparative data are available — Temple received \$5,630 per full-time equivalent student; Pitt pulled in \$4,750; the state-owned universities were given an average of \$4,580; while Penn State received \$3,350.

"Because this faculty initiative is so vital to the core mission of our University and to improving the quality of our educational programming we are determined to make some level of progress regardless of state funding," Spanier said.

In addition to the 25 new faculty positions already given the go ahead, \$1 million also has been earmarked to add faculty and enhance programs in the Life Sciences Consortium that includes the Eberly College of Science and the colleges of Health and Human Development, Medicine, the Liberal Arts and Engineering. \$4.6 million will support faculty positions and other high priority academic programs across the Penn State system, and \$1.4 million from recent adopted changes in the tuition structure, will go to colleges and campuses based on the enrollment in each unit.

"I see these steps as great first steps," said Louis Geschwindner, professor of architectural engineering and chair of the University Faculty Senate. "I think this will be important for every unit of the University. The biggest value of course is more student interaction with faculty and the potential for smaller classes, but the impact on the entire University is going to obviously be extremely positive."

Geschwindner explained that having new colleagues always provides new opportunities for teaching and research efforts. It is possible that fresh ideas and new hires could result in new courses being designed and offered.

"Adding new faculty could mean new course offerings," agreed Susan Welch, dean of the College of the Liberal Arts. "But this will all take time. Although 100 faculty is good news, it is still a small percentage of overall faculty. We've got to start somewhere and eventually it will make an impact."

Welch, who said her college has been working for years on finding ways to increase its faculty numbers, said the College of the Liberal Arts is an early beneficiary of the initiative, having gained approval for three positions. Two were recently filled — one in religious studies and the other in psychology.

Howard Grotch, dean of the Eberly College of Science, said because his college pro-

vides service instruction at the undergraduate level, the news of additional faculty is a welcome relief. About 75 percent of the student credit hours provided by the College of Science are offered to students outside the college.

"This is an extremely important initiative that will enable class sizes to go down and will allow us to possibly offer more courses for students," Grotch said. "I'm excited about the entire prospect."

Large class sizes have been an ongoing concern of Spanier's, who said that on the whole Penn State classes are manageable, but the need is there for more teachers to truly make the educational experience a valuable one. In the Joint State Government Commission report, Penn State's average class size for undergraduates is 29. In the 1996 fall semester, more than 85 percent of all class sections had 50 or fewer students enrolled, and two-thirds had 30 or fewer, according to information from the Office of Budget and Resource Analysis.

"I think some of the large class discussion is myth," said Diane Enerson, director of the Center for Excellence in Learning and Teaching. Enerson coordinates annual luncheons to promote discussion among faculty members who teach larger classes. "There are some large classes, but we have found that most of those who teach larger classes have an average of 15 years of teaching experience and tend to have a higher level of expertise. The reality is that you can still have an excellent learning experience in a large class setting."

Through the center's program, faculty who teach larger sections exchange ideas on how to improve the large class experience. On another front, Enerson is frantically preparing for the onslaught of 100 new faculty faces. The center has embarked on a new program fashioned after the large class luncheon discussion called the "New Faculty Network." Enerson hopes the structured opportunities the center will provide for new faculty to meet will help them "get their bearings and discover what resources are available to them at the University."

"I think that if these 100 faculty positions are used judiciously they could have a tremendous impact," Enerson said. "Not only on student learning and on teaching, but also on the morale of the entire University."

LECTURES

Molecular biology symposium is Aug 7-9

Penn State's 16th Summer Symposium in Molecular Biology, titled "Microbial Structural Biology," will take place from Thursday, Aug. 7 through Saturday, Aug. 9, at the University Park campus in collaboration with the University of Georgia.

Christopher T. Walsh, professor of biological chemistry and molecular pharmacology at the Harvard Medical School, will present the Thomas J. Watson Jr. Lecture in Molecular Biology at 8 p.m. Thursday, Aug. 7, in Schwab Auditorium. Walsh is a member of the National Academy of Science and is internationally recognized for his pioneering work on the molecular basis of biological catalysis, which focuses on the structure and function of enzymes including enzymes involved in bacterial cell wall biosynthesis.

Wolfgang Baumeister, director of the Division of Molecular and Structural Biology at the Max-Planck Institute for Biochemistry in Munich, Germany, will present the plenary lecture at 7:30 p.m. Friday, Aug. 8, in Schwab Auditorium. Baumeister is internationally recognized for the discovery of, and structural studies

on, novel enzymes and proteins from the Archaea — a recently recognized domain of organisms that is distinct from the bacteria domain and from the eukaria domain, which includes organisms from yeast to humans.

The keynote address and the plenary lecture are open to the public. Also open to the public at no charge are the symposium's industry exhibits on current research directions in molecular biology and the latest biotechnology-oriented products and services. These exhibits will take place on Thursday, Aug. 7, at the HUB Ballroom and Fishbowl from 10 a.m. to 4 p.m.

Among the symposium events are 18 invited lectures and a number of oral presentations and posters, which will be presented in Schwab Auditorium.

The 1997 symposium is organized by the faculty of the Summer Symposium in Molecular Biology with support from many academic units at Penn State, a variety of industrial organizations, and the University of Georgia. For more information or to register for the symposium, contact Carey Shuey, program coordinator, at (814) 863-1918.

Social structures, mobility focus of gerontology caucus

In cooperation with the Geriatric Education Center of Pennsylvania, the College of Health and Human Development is presenting the Penn State Gerontology Center Conference on "Social Structures and Mobility in the Elderly." The conference, a continuing and distance education service, will be held Oct. 13-14 at the Penn State Conference Center Hotel. The event is free for Penn State faculty, staff and students.

Chaired by William Evans, from the University of Arkansas, and Penn State's Martin Pietrucha and K. Warner Schae, the two-day conference will include six presentations: "Sensory and Cognitive Changes with Age," "Limitations of Mass Transportation and Individual Vehicle Sys-

tems for Older Persons," "Cause of Accidents Related to Age," "Used or Developed Improvements for Increasing Mobility and Reducing Accidents of Older Drivers," "Physiological Age Changes," and "Development of Assistive Devices to Improve Driving Skills in the Elderly and Amelioration of Environmental Hazards."

There is a \$90 fee (\$55 for graduate students from other institutions) for registrants other than Penn State faculty, staff and students. To register, call (800) 778-8632. For more information, contact Judy Hall by phone at (814) 863-5130 or by e-mail at Conference-Info1@cdc.psu.edu. You may also visit the Web site: <http://www.cdc.psu.edu/C6/SocialStructures&Mobility/>.

Keynote presenter picked for October conference on future of medicine

Internationally renowned healthcare expert and best-selling author Dr. Andrew Weil will be the keynote presenter for the conference "The Future of American Medicine — Changing Paradigms for Healing," scheduled for October at the Penn State Conference Center Hotel and The Nittany Lion Inn.

Weil, a Harvard-educated M.D., has earned the reputation as one of the world's leading authorities in alternative medicine — a field that has experienced unprecedented growth and interest over the past decade. Along with his noted advances in the alternative healthcare field, Weil has authored six books, including such

best-selling titles as *8 Steps to Optimum Health* and *Spontaneous Healing*.

"The Future of American Medicine" conference will be a three-part event addressing issues such as the role of integrative medicine in today's society; how it will impact on healthcare delivery systems; and future directions in health-based education and research. Among one of the conference highlights will be an evening public lecture by Weil.

"The Future of American Medicine" conference is scheduled for October 20 and 21. For more information, contact Georgia Abbey at the Penn State Conference Center Hotel, (814) 863-5140, or fax (814) 863-5190.

News in Brief

Yoga this summer

The Health Matters Program is still offering summer yoga at University Park. Starting July 30 and continuing through Sept. 10, classes meet Wednesdays, 12 p.m.-1 p.m. in 133-F Johnston Commons. The seven-week session costs \$35, reimbursable to HMO participants taking the yoga series for the first time.

To register, contact Jan Hawbaker at 865-3085 or jgh3@psu.edu.

Cigarette smokers needed

The Department of Biobehavioral Health would like to speak with smokers of "ultra-light" cigarettes (ie. Carlton, Now, Merit Ultima) about their possible participation in a paid research study. The principal investigator on the study is Christine T. Sweeney, pre-doctoral Fellow in Health and Human Development. Please call 865-0089 for more information.



What heat wave?

One group of people found a sure way to stay cool this summer. They attended a Penn State Ice Hockey Camp. Students from around the state come here to improve their skills every year.

Photo: Greg Grieco

Summer sessions programs aid in decision-making

They're leaving home, testing their wings and deciding what they want to be when they grow up.

With support from community leaders, business people and professionals, high school students from Pennsylvania will begin to experience some of life's lessons and consider career paths enrolled as Summer Sessions students at the University Park campus.

Upcoming programs include:

- Staff Assistant Training Program; contact **Steve Hayes**, (814) 865-1387.
- English Department Minority Graduate Summer Orientation Program; contact **Don Bialostosky**, (814) 863-3069.
- Multicultural High School Film and Video Workshop; contact **Ned Faust**, (814) 863-1243.
- Minority Research Apprentice Program; contact **Dan Trevino**, (814) 863-1291.
- Hispanics for Academic Program; contact **Jesus Colon**, (814) 863-2293.
- Bridges to the Future, geared toward low-income students; contact **Earl Merritt** or **Deborah Atwater**, (814) 863-1977.
- Minority Student Apprenticeships in Agriculture; contact **William Henson**, (814) 865-7521.
- Food and Agricultural Sciences; contact **Blannie Bowen** or **Cathy Bowen**, (814) 863-7850.
- Minority Commonwealth Campus Retention Program; contact **Shenetta Selden**, (814) 863-8598.
- Pre-Freshman Engineering and Summer Scholars Program; contact **Sandra Johnson**, (814) 865-7138.
- Wallops Island Environmental Research; contact **Richard Devon** or **Geraldine Russell**, (814) 863-7688.

■ Outreach

ALERT partnership helps increase safety

Carbon, Lehigh, Monroe, Northampton and Schuylkill counties will have safer communities thanks to Penn State and its partners. Penn State Lehigh Valley continuing and distance education, ALERT Partnership and the City of Bethlehem's Police Department were recently awarded a \$480,729 grant from the U.S. Department of Justice to provide training for municipal police in the five-county region.

Goals of the grant include training law enforcement officials and residents to build partnerships that will initiate and sustain community policing by using a community advisory panel. Residents also will work together with the law to incorporate problem-solving techniques and to integrate community policing as a model for all police personnel.

Grant funds will support salaries, training equipment and supplies, Web site and e-mail development, needs assessments in the communities involved and the establishment of community task forces.

All partners in this combination will bring their



Hot game

Larsa Wock serves one to Peneia Sherman at the tennis courts on Pollock Road at University Park. Despite soaring temperatures statewide, many people have headed outdoors for summer fun in recent weeks.

Photo: Greg Grieco

New at Penn State

Chicken or the egg?

A new program at Penn State Beaver allows urban youth to follow the life cycle of a chicken from first cluck to final pluck.

As part of an innovative diversity outreach effort to show inner-city children new career opportunities, the project incorporates the help of not only Penn State experts, but individuals from the Beaver County Housing Authority and the Alquippa School District. The program also shows how agriculture relates to the food system.

"It really exposes the children to the reality that chickens don't just appear in the local supermarket," said **Donald Sheffield**, special assistant to the vice provost for educational equity, who conceived the idea. "Someone has to raise them and feed them."

Sheffield said elementary students from Alquippa monitored eggs, incubating and hatching as part of the program. A second group of middle school students researched the feeding and growth patterns of the chicks. Half of the students also traveled to University Park to tour the Poultry Education and Research Center and other University facilities.

"Eventually, I would like to make this a mobile project that can be taken to urban schools and neighborhoods," Sheffield said.

Help for entrepreneurs

The creation of an Entrepreneurial Development Center to serve new and growing businesses in the Capital Region has taken another major step forward with the appointment of Penn State Harrisburg faculty member **Robert Russell** as its director.

The EDC, to be located at 18th and State streets in Harrisburg, is being created through the efforts of the Capital Regional Economic Development Corporation in conjunction with the City of Harrisburg and the region's business, education and public service communities.

The center will provide, under one roof, an entire range of business start-up and development services from pre-operational planning to securing low interest financing to long-term mentoring. Its goal is to facilitate the delivery of services to entrepreneurs either starting or expanding business operations in the region.

Through a combination of on-site counseling, training and linkages to needed business resources, the EDC will aim to minimize time, effort and expense often encountered by entrepreneurs seeking information or assistance. Potential services of the EDC include self-assessment programs, the development of a business plan, local and financial issues, management and training concerns, marketing, technical support, mentoring support and seminars.

Russell has been an assistant professor of management for six years in the Penn State Harrisburg School of Business Administration. He views the creation of the center as "a necessary first step toward building an entrepreneurial network in the region."

Appointments

Editor's note: The following appointments are as a result of the University's reorganization, which became effective July 1.

Four division heads appointed at Altoona

Four new division heads have been appointed at Penn State Altoona: **William C. Engelbret**, Division of Business and Engineering; **Lori Bechtel**, Division of Education, Human Development and Social Sciences; **James A. Winsor**, Division of Mathematics and Natural Sciences; and **Michael W. Wolfe**, Division of Arts and Humanities. Each will be responsible for providing leadership to develop and maintain academic courses and programs within their respective divisions. Altoona campus became a college effective July 1.

Engelbret, associate professor of accounting, received a Ph.D. in accounting from Penn State, an MBA from the University of Pittsburgh and a bachelor of arts degree from Thiel College. He is a member of the Pennsylvania Institute of Certified Public Accountants (PICPA) and has been involved with continuing education for certified public accountants. He has served as chairman of many of PICPA's education committees and has served on its board of directors for the Foundation for Education and Research. He has been a member the ruling body of the State CPA Society and is a member of the Institute of Management Accountants. In addition, he is a member of the American Accounting Association and the American Institute of Certified Public Accountants.



WILLIAM C. ENGELBRET

Engelbret was the recipient of Penn State Altoona's Student Government Association Annual Faculty Award for Outstanding Teaching in 1979, 1982, 1986, 1989 and 1994. In addition, he received the Grace D. Long Award in 1990 and the George W. Atherton Award for Excellence in Teaching in 1992.

Bechtel, professor of biobehavioral health, received a Ph.D. in health education from Penn State; a master of science degree from the University of Illinois; and a bachelor of science degree from Lock Haven State University, where she recently received a Distinguished Alumni Award. She is a member of the Pennsylvania School Health Association; the American School Health Association; Pennsylvania State Association of Health, Physical Education, Recreation and Dance; and a variety of community organizations.



LORI BECHTEL

Bechtel was the recipient of the College of Health and Human Development's Dorothy Jones Barnes Teaching Award and Commonwealth Educational System Faculty Achievement Award in 1995. She also received the Health Educator of the Year Award for the Pennsylvania State Association for Health Education in 1995; the Pennsylvania School Health Association Distinguished Service Award in 1994; Penn State's George W. Atherton Award for Excellence in Teaching in 1993; and the Grace D. Long Award for Faculty Excellence in 1993.

Winsor, professor of biology, received a Ph.D. in

botany; a master of science degree from the University of Michigan; and a bachelor of arts degree from Ohio Wesleyan University. He is a member of the Botanical Society of America, the Ecological Society of America, Pennsylvania Academy of Sciences, Horseshoe Curve Resources Coalition and Altoona's Shade Tree Commission advisory board. Winsor's research interests include plant reproductive ecology. He was the recipient of the Student Government Association's Outstanding Faculty/Adviser Award in 1989 and 1993.



JAMES A. WINSOR

Wolfe, associate professor of history, received a Ph.D. in history and a master of arts degree from Johns Hopkins University. He also received a master of arts degree and a bachelor of arts degree from Boston University. He is a member of the American Historical Association, the Sixteenth Century Society, the Society for French Historical Studies and the Western Society for French History, among others. His research interests include early modern France, religious history, military history and urban history. Wolfe received the Grace D. Long Award for Faculty Excellence in 1995 and the Provost's Award for Innovative Teaching in 1993.



MICHAEL W. WOLFE

Administrative appointments are announced at Abington

Penn State Abington officials recently announced the following administrative appointments, effective July 1:

Paul J. Hutta has been named head of the Division of Science and Engineering at Penn State Abington. Hutta is an associate professor of engineering at Abington. A registered professional engineer, he earned his B.S. in electrical engineering from Penn State and his Ph.D. in physics from Lehigh University.

A recipient of the University's Engineering Society Outstanding Teacher Award, Hutta has taken leadership roles in numerous campus and University professional activities, including serving as chair of the Ogontz Technical Advisory Council and leader of the Electrical Engineering Technology Group. In addition to his academic career, he has worked in a variety of management and technical posts for companies including General Electric Co. and Betz Labs. He is a member of the American Society of Engineering Education, the Institute of Electri-



PAUL J. HUTTA

cal and Electronic Engineers and the American Physical Society and has published scholarly papers in journals including *Materials Chemistry* and *Physics and Inorganic Chemistry*.

Ellen Andrews Knodt has been named head of the Division of Arts and Humanities. Knodt, an associate professor of English and associate director of academic affairs at Abington, is the 1996 recipient of the Atherton Award for Outstanding Teaching. In 1994, she also was selected Outstanding Teacher in the College of the Liberal Arts.



ELLEN ANDREWS KNOTT

Knodt, the author of numerous books, book chapters and scholarly articles, specializes in teaching writing to undergraduate students. In recent years, she has written several texts on writing, including *Understanding Ourselves: Readings for Developing Writers* (Harper Collins, 1996) and *Making Progress: From Paragraphs to Essays* (Harper Collins, 1991). Knodt received her Ph.D. in English from Carnegie Mellon University, her master's in American studies from Purdue University and her bachelor's degree in English from Northwestern University.

James F. Smith has been named head of the Division of Social Science. Smith, a professor of English and American studies, has served in a variety of administrative posts in recent years, including as baccalaureate degree coordinator at Abington; coordinator of the Department of English at Abington; associate head for the Commonwealth Educational System; Department of English; and chair of the University Faculty Senate.



JAMES F. SMITH

Smith is the 1996 recipient of the College of the Liberal Arts Outstanding Advising Award, as well as Abington's Distinguished Service Award and an AMOCO Foundation Award for Outstanding Teaching, among many others. He is the author of numerous books, book chapters and scholarly articles, including *The Business of Risk: Commercial Gambling in Mainstream America*. Smith earned a bachelor of arts in English from Boston College, a master's and Ph.D. in English from Penn State.

Patricia Weaver has been named head librarian. Weaver joins Abington from the Francis A. Drexel Library of St. Joseph's University in Philadelphia, where she served as acting head of the reference division.

Weaver holds a bachelor's degree in English from Millersville University, a master of science degree in information studies from Drexel University and an MBA from St. Joseph's University.



PATRICIA WEAVER

Appointments

Editor's note: The following appointments are as a result of the University's reorganization, which became effective July 1.

Capital College names director of the School of Public Affairs

Long-time Alfred University faculty member Steven A. Peterson is the new director of the School of Public Affairs at Capital College's School of Public Affairs. As a result of the July 1 realignment of the University, Capital College is now a two-campus institution consisting of Penn State Harrisburg and Penn State Schuylkill.

Peterson succeeds associate professor of public administration James E. Skok who directed the school on an interim basis since 1994 and will return full-time to faculty duties. Peterson joins the college as a professor of politics and public affairs.

A 1969 magna cum laude graduate of Bradley University, Peterson earned his Ph.D. in 1974 from The State University of New York at Buffalo. He joined the faculty at Alfred, in New York state, as an assistant professor of political science in 1973. He was promoted to associate professor in 1978 and to professor in 1984. He was awarded the Alfred Excellence in Teaching Award for 1982-83.

A former chair of the Division of Social Sciences at Alfred, Peterson has authored a vast list of publications and articles, including a new book titled *Darwinism, Dominance and Democracy: The Biological Bases of Authoritarianism*, published by Praeger. His prime research areas are in judicial process, public policy, biopolitics, political behavior, American political institutions and political psychology.

The School of Public Affairs has shown rapid growth in the past several years. Included in recent successes have been a new master of public administration program and a joint degree offering with The Dickinson School of Law which enables students to earn a law degree and a master's degree in public administration simultaneously.

Berks-Lehigh Valley College adopts new academic structure

As a result of the July 1 merger between the Berks and Lehigh Valley campuses into Penn State Berks-Lehigh Valley College, the college has undergone organizational changes.

The academic structure of the new college will be organized into three divisions: liberal arts, science and engineering, business, computing and human development.

Michael Riley, associate professor of English at Berks campus, has been named liberal arts division head. He became a Penn State faculty member in 1978, serving first at the Wilkes-Barre campus and moving to Berks in 1981. Riley earned his doctorate and master's degrees from Ohio University. He earned his bachelor's degree from the University of Scranton.

David Sanford, associate professor of horticulture at Berks, was appointed science division head. Sanford, who has served at Berks campus since 1989, is responsible for the construction and maintenance of the campus greenhouses, nursery and display gardens, and he supports southern Pennsylvania's cooperative extension educational efforts in ornamental horticulture. Sanford earned his doctorate from North Carolina State University, his master's degree from Michigan State University and his bachelor's degree from Cornell University.

Carolina "Karr" McCluskey, assistant professor of computer science at Lehigh Valley, was named head of the engineering, business, computing and human development division. A native of the Philippines, she received her bachelor's degree from St. Scholastica's College in Manila and her master's degree from Ateneo de Manila University. She then came to the United States and earned her doctorate from Lehigh University, where she taught computer science. McCluskey also was a post-doctoral fellow at NASA Goddard Space Flight Center.

Great Valley interim appointment now a permanent one for CEO

Madlyn L. Hanes has been named campus executive officer of the Penn State Great Valley Graduate Center and associate dean of the Graduate School.

Hanes, who served as interim Great Valley CEO since March, joined the University in 1988 as director of academic affairs at the Delaware County Campus. From 1995-96, she served a dual role as director of academic affairs at Penn State Great Valley and Delaware County campuses.

Hanes, an associate professor of curriculum and instruction, has served a number of leadership roles in higher education, including a three-year post as chair of Penn State's Commission on Undergraduate Education from 1992-1995. Her international experience includes work with overseas American schools, ministries of education and higher educational institutions in Ecuador, Israel, Korea and Jamaica, and a special appointment to the University Council of Jamaica by the prime minister, among other roles.

Her scholarly interests include professional education and curriculum design. She is the author of two books, 30 articles and monographs and 20 technical reports to sponsors on program development and accreditation, and professional licensure. She currently serves on the state board of the Pennsylvania American Council on Education, and as one of Pennsylvania's three regional coordinators and delegates to the national office of women in higher education administration.

Hanes earned her Ph.D. in curriculum and instruction from the University of Florida, where she also earned her B.A. in English and her M.A. in speech pathology. She is a licensed speech-language pathologist with the American Speech-Language-Hearing Association.

Parallel appointments announced at Penn State Harrisburg

Lois Wenger Jordan is the new director of development at Penn State Harrisburg.

In a parallel appointment, former Penn State Harrisburg director of development Sandra Hafer Friedman has been named the college's first full-time alumni director.

The appointment of Friedman reflects Penn State Harrisburg efforts to build a stronger network with more than 18,000 Penn State Harrisburg alumni, according to John Bruhn, provost and dean for the college. A Lancaster resident, Jordan comes to Penn State Harrisburg following development positions at The Milton S. Hershby Medical Center and St. Joseph Hospital in Lancaster.

For the past 10 years, she has served as associate director in the Office of University Development at Hershey, where she was responsible for the first faculty campaign resulting in a 93 percent participation rate and \$1.3 million in gifts and pledges. She also directed the campaign for the medical center chapel, which raised \$400,000 and exceeded its goal by 25 percent. In addition, she established records for private contributions to the medical center.

Her responsibilities at the medical center also included service as alumni coordinator, during which time she revised the College of Medicine's

alumni constitution and bylaws, developed a mentor program, expanded day care and coordinated the reunion weekend and the presentation of the Alumni Fellow award.

Jordan founded the development office at St. Joseph, serving as its director from 1982 to 1987. She is a former schoolteacher, a graduate of Millersville University and has pursued graduate studies at the University of Edinburgh in Scotland and at Penn State.

Instructional specialist joins team at Penn State Shengano

David Kuskowski was recently appointed instructional specialist at Penn State Shengano. The position is associated with "Project Empower," the University's initiative for Commonwealth College campuses to enhance active and collaborative learning in the classroom through computers and telecommunications technologies.

As instructional specialist, Kuskowski will consult faculty on ways to enhance learning strategies and outcomes and provide support for the creation of multi-media and technology-based learning resources.

Kuskowski earned his bachelor's degree in education from Youngstown State University and previously held the position of academic adviser/admission's counselor at Penn State Shengano.

Penn State Erie gains athletics director

Brian F. Streeter, assistant athletics director at Hobart College in Geneva, N.Y., has been named athletics director at Penn State Erie, Behrend College, effective Aug. 1.

Streeter, who earned a B.S. in health and physical education from Texas A & M University and a master's degree in physical education from Ithaca College, has served as assistant athletics director and head coach for men's basketball at Hobart since 1984. He also has overseen summer programs at Hobart for the past five years.

Before his appointment at Hobart, Streeter served as interim athletics director at William Smith College, also in Geneva, and served two years as head men's and women's tennis coach and intramural director at Blinn College in Brenham, Texas. He has coached football, basketball and track.

Streeter is a five-time winner of the Schoenfeld Regional Sportsmanship Award given by the College Basketball Officials Association. In 1995, he took top honors for the same award nationwide.

Streeter was named Volunteer of the Year by the American Red Cross in 1993, and has served on the school board in Geneva, as well as on the board of Geneva's Boy's and Girl's Club. While at Hobart College, he developed the Rebound and Read program for young people, a program to help develop skills in reading through the sport of basketball.

Streeter will replace Herb Lauffer, longtime athletic director at Penn State-Behrend, who died in January. The new athletics director arrives at the college on the heels of a \$2 million endowment for the athletics program, as well as the release of \$10 million in funding for a new athletics recreation complex. Ground is scheduled to be broken for the complex in the summer of 1998.



SANDRA HAFER FRIEDMAN



LOIS WENGER JORDAN

Ag Progress Days has something for everyone

By JOHN WALL
College of Agricultural Sciences

Visitors can take a cutting-edge lawn tractor out for a whirl, participate in a high-tech agricultural quiz show or get a close-up look at insects at Ag Progress Days, sponsored by the College of Agricultural Sciences, Aug. 12-14.

This year's theme, "Pennsylvania Agriculture ... A Moving Force in a Changing World," focuses on the economics of Pennsylvania's farms. Ag Progress Days features more than 500 acres of educational and commercial exhibits at the University's Russell E. Larson Agricultural Research Center at Rock Springs, nine miles southwest of State College on Route 45. Hours are 9 a.m. to 5 p.m. Tuesday and Thursday, with extended hours on Wednesday from 9 a.m. to 8 p.m. Admission and parking are free.

Several new exhibits will explore the role agriculture plays in Pennsylvania's economy, as well as the opportunities to market Pennsylvania products on a national and international scale.

At the College Exhibits Building, visitors can see how a family-owned dairy farm, a transportation and trucking firm and a food processing company have changed and adapted to changing market conditions from 1940 to today. A farm finance demonstration, staffed by University faculty, will crunch the numbers in financial questions using a cutting-edge computer analysis program.

Visitors can participate in SciQ, played daily at 10 a.m. and 2 p.m. in the College Exhibits Building Theatre. A special version of the show for children, called SciQ Jr., is played daily at 11 a.m. and Wednesday at 6 p.m.

At the Pasto Agricultural Museum, visitors can examine items ranging from a vintage cream separator to an antique potato harvester and more.

Ag Progress Days' popular Insect Zoo in the new ImAGination Station will feature displays on good bugs and bad bugs, insect pests and such creeping attractions as large lubber



Family-oriented fun

Equestrian events are among the happenings that will appeal to people of all ages at Ag Progress Days. The event will be held Aug. 12-14.

grasshoppers, cockroaches and tobacco hornworms.

Storyteller Jan Kinney will perform in the College Exhibits Building Theatre every day at noon, creating tales from memory for up to 45 min-

utes. The Family Room offers visitors demonstrations on using the food pyramid to maintain a healthy diet. In addition, faculty will offer information on credit, financial management and financial life skills.

Getting there

What: Ag Progress Days
When: Aug. 12-14

Where: Russell E. Larson Agricultural Research Center at Rock Springs, nine miles southwest of State College on Route 45.
Admission: Admission and parking are free.

Another exhibit that will appeal to children and their parents is a display sponsored by Penn State's Students for the Responsible Use of Animals. Young calves, lambs, pigs and other livestock will be on display, and University students staffing the display will answer any questions.

Other family-oriented exhibits include equestrian events, educational displays and food booths offering culinary treats ranging from breaded mushrooms to University Creamery ice cream.

A variety of informative booths can be found at the Conservation Education Tent on West 11th Street on the Ag Progress Days site. Buses will depart from the tent each day to take visitors on various tours demonstrating conservation techniques.

Bus tours leaving from the corn crib throughout each day will illuminate Penn State's scientific work in potato research, integrated crop management, fruit and vegetable production and many other programs.

There will be free CATAs bus service all three days of the exhibition. The shuttle departs from the intersection of College Avenue and South Allen Street at 9:30 and 11:30 a.m. Aug. 13-15. On Aug. 14, when Ag Progress Days remains open until 8 p.m., there will be an additional departure at 2:30 p.m. Departure times for the return trip are at noon, 3 and 4 p.m. Aug. 13-15, with a 7 p.m. shuttle Aug. 14.

For more information, call (800) PSU-1010 through Aug. 15. Or visit Ag Progress Days on the Web at <http://www.cas.psu.edu/docs/CASHOME/APD/APD.HTML>.

25-year Awards



FIOLENA CRAMER



KENT A. CROSSLAND



GERALD K. RIGGART



AUGUST H. SIMONSEN



DORIS WRIGHT-COLDREN



J.L. DUDA

Observing 25 years of service at the University are, from left: Filomena Cramer, staff assistant VIII in the Department of Biochemistry and Molecular Biology at The Milton S. Hershhey Medical Center; Kent A. Crossland, maintenance foreman; Gerald K. Riggart, maintenance mechanic B; August H. Simonsen, campus executive officer; and Doris Wright-Coldren, former acting ODS coordinator, University Scholars adviser and English 4 testing coordinator, all at Penn State Fayette; and J.L. Duda, professor and head of the Department of Chemical Engineering in the College of Engineering.

UNIVERSITY PARK CALENDAR



On stage

Bradford Wallace is John Tarleton and Jacquelyn Poplar is Lina Szczepanowska in the Pennsylvania Centre Stage production of "Misalliance." The George Bernard Shaw comedy runs through July 26. For more information, call the Arts Ticket Center at (814) 863-0255 or (800) 278-7849.

SPECIAL EVENTS

Friday, July 25

Ice Cream "Divisions," 7 to 8 p.m., Creamery patio, The Dixie Lions Jazz Band.

"Misalliance," 8 p.m., Pavilion Theatre, Pennsylvania Centre Stage, through July 26. For tickets, phone (814) 863-0255.

"A Chorus Line," 8 p.m., The Playhouse, Pennsylvania Centre Stage, through Aug. 2. For tickets, phone (814) 863-0255.

Saturday, July 26

Jimmy Dorsey Orchestra, 7 p.m., Bryce Jordan Center. GSA Family Films, 8:30 p.m., Fisher Plaza, "Who Framed Roger Rabbit?"

Monday, July 28

Dance Aerobics "Divisions," 8 to 10 p.m., White Building.

Tuesday, July 29

Music at Noon: Fisher Plaza, Mick and the Mystics. GSA Explazaganza, 9 p.m., Fisher Plaza, "Breakfast at Tiffany's"

Wednesday, July 30

HUB Lawn Films, dusk, Mystic Pizza.

Thursday, July 31

Music at Noon: Fisher Plaza, Red Apple Juice.

Friday, August 1

Ice Cream "Divisions," 7 to 8 p.m., Creamery patio, Rich Victor Quintet.

Pennsylvania Centre State, "A Chorus Line," 8 p.m., Playhouse, through Aug. 2.

Saturday, August 2

GSA Family Films, 8:30 p.m., Fisher Plaza, "The Love Bug."

LECTURES

Thursday, July 31

Summer Science Seminars by Leonid Berlyand, 3:30 p.m. The Nittany Lion Inn.

CONFERENCES

Tuesday, July 29

Summer Science Seminars by Leonid Berlyand, 3:30 p.m. The Nittany Lion Inn.

Wednesday, July 30

"Topics in Number Theory" through Aug. 3.

Thursday, July 31

Advanced Conservation Leadership, Stone Valley, through Aug. 9.

Thursday, Aug. 7

"Microbial Structural Biology," through Aug. 9.

EXHIBITS

HUB Art Alley Cases, Art Alley Panels and Hall Cases

Mixed media of Susan Struble and Alice Ritti, through July 31.

Kern Cases

Jewelry by Evelina Francis, through July 27.

Kern Panels

Photos by John Mannion, through July 27.

Kern Tall Cases

Embroidery Guild exhibit, through July 27.

Palmer Museum of Art

"Making History: Historical Narratives in Pennsylvania Prints," through Aug. 31.

School of Visual Arts Photography Exhibition, through Sept. 14.

"Our Town: A Selection of Town Views from the Pennsylvania Prints," through Sept. 28.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>

Book Shelf

Thomas A. Hale, professor of African, French and comparative literature, and Stephen P. Belcher, assistant professor of comparative literature, are co-editors, with John W. Johnson (Indiana University) of *Oral Epics from Africa: Vibrant Voices from a Vast Continent* (Indiana University Press).

The anthology of excerpts from 25 African oral epics is the first volume of its kind to appear in print. Together, the texts represented in it refute the long-held view by scholars that the oral epic does not exist in Africa.

In the introductory chapter, the editors give readers both an overview of the African epic today and insights into current issues such as the evolving definition of the genre, ethno-specific terms for these long, poetic narratives and the existence of epics by women. A map marking the location of the epics, essays introducing the different ethnic traditions, an extensive bibliography and a detailed index help readers to place the diverse text in a comparative context.

Some of the epics in the volume are appearing in print for the first time, while many others have been accessible until now only in French. Nearly all of the texts were recorded during the last two decades and represent the work of a new generation of scholars in African literature. *Oral Epics from Africa* is the third volume to appear in the African Epic Series edited by Hale and Johnson for Indiana University Press.

The latest in a series of all-color, illustrated railroad histories from Jeremy F. Plant, professor of public administration and public policy at Penn State Harrisburg, is now in area bookstores. *Boston and Maine*, by Plant and Jeffrey G. Plant, features the photography of the authors along with contributions from 25 other photographers.

The 128-page, hardcover volume covers the history of the New England railroad in color pictures taken between 1939 and 1989. It traces the dramatic years of change on the Boston and Maine as it pioneered diesel freight power in the East, used steam power in Boston-area commuter service in the 1950s, and declined as a result of competition from roads and highways in the 1960s and 1970s.

The final section of the book notes the Boston and Maine's remarkable recovery from bankruptcy in the late 1970s and early 1980s, the takeover by the Guilford Corp., and the assumption of commuter service on B&M routes by the Massachusetts Bay Transportation Authority.

Beyond Instruction: Comprehensive Program Planning for Business and Education, written by William Rothwell, associate professor of education, and Peter Cookson, professor in the Centre for Distance Education at Athabasca University in Alberta, provides an overview of the program planning process for both new and experienced "directors of learning" in business, education and other organizational settings. The book outlines a systematic planning process that analyzes emerging planner roles and offers guidance for the full range of planning tasks — assessing needs, setting goals, monitoring effectiveness, supervising instructors, budgeting, promoting and recruiting. The book can be used as a how-to manual for those new to the field, or as a reference book for experienced trainers and educators.



Provost appoints data working group

In June, John Brighton, executive vice president and provost, appointed a "data working group" to explore opportunities to better support University-level decision making through the use of information and data analysis. P. Richard Althouse, budget officer of the University, and Louise E. Sandmeyer, executive director of the Center for Quality and Planning, are sponsoring this project.

The members will look at reports currently generated, how well significant University-level information needs are being met, how information crosses units and levels, opportunities for increased effectiveness and efficiency in data collection and analysis, and similar issues. Penn State already has important, related initiatives dealing with the University's operational electronic data bases (such as the data warehouse and the Executive Information System). The focus of this working group is on the use of high-quality, accessible information — from a variety of internal and external sources — to enhance understanding, planning and actions.

Michael J. Dooris, director of planning research and assessment, is chair of the data working group. Members include Robert W. Barlock (Quality and Planning); Leslie Frye and Donley Hogg (the Graduate School); Thomas Gesell (Affirmative Action); Cynthia Hall (University Relations); Edith C. Hertzog, Katherine B. Holsworth, and Richard D. Sheeder (Budget and Resource Analysis); Ronald E. Kreidler (Administrative Systems); Michael R. Laubscher (International Programs); Ralph Locklin (Undergraduate Education); Frederick D. Loomis (Continuing and Distance Education); Thomas A. Moore (Alumni Association); Robert E. Quinn, James J. Wager, and Mark Weaver (Enrollment Management and Administration); Susan R. Rankin (Educational Equity); Stephen R. Selfe (Human Resources); Donald T. Suit (Student Affairs); Kenneth E. Varcoe (Commonwealth College); and Jere J. Willey (University Development).

Faculty/Staff Alerts

Getting more through Broadcast News service

The University is a big place and dissemination of information can be difficult. A new University function called Broadcast News provides a solution.

The concept is simple. Broadcast News uses Web and e-mail technology to deliver news to the existing e-mail in-boxes of subscribers. Composed of various "channels," Broadcast News has two channels in operation: the GURU channel provides notification of changes to University policies and other documents and information available in GURU; the Travel Services channel provides news similar to that provided by the now defunct Travel Services bulletin board in EMC2.

To subscribe, a user initially must go to a Web site and register for each channel he or she wishes to receive. The user must provide a userid and password of their choosing, and e-mail address. The userid and password allow subscribers to change or cancel their subscription any time in the future. And a user may want to

receive news at more than one e-mail account. The user simply enters an additional subscription for additional e-mail accounts.

A channel directory is located at GURU.PSU.EDU/broadcast.html.

Bulletin published on soil climate regimes

The Penn State Agricultural Experiment Station, in cooperation with the USDA Natural Resources Conservation Service's Soil Quality Institute, has published Bulletin 873, "Soil Climate Regimes of Pennsylvania."

The Penn State Bulletin was authored by William J. Waltman, Edward J. Cielkosz, Maurice J. Mausbach, Mark D. Svoboda, Douglas A. Miller and Philip J. Kolb.

It includes a series of color soil temperature-moisture maps, other maps, weather station data and text.

The bulletin is available from the College of Agricultural Sciences, Mail Room, 112 Agricultural Administrative Building, Penn State University, University Park, Pa. 16802.

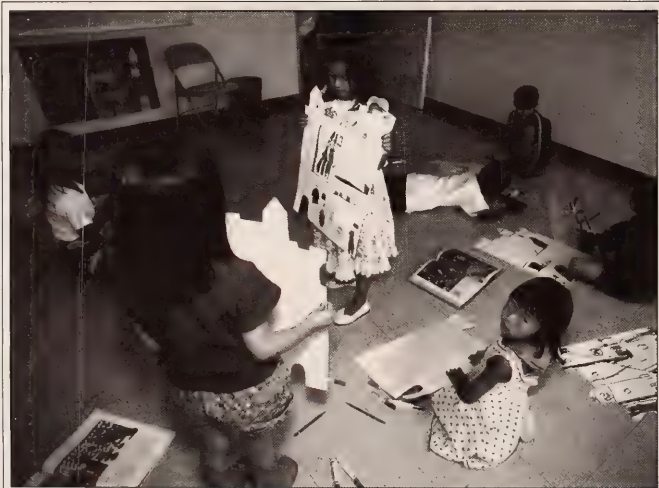
Penn College has majors accredited

The Accreditation Board for Engineering and Technology (ABET) has accredited Pennsylvania College of Technology's plastics and polymer engineering technology and surveying technology majors. ABET's Technology Accreditation Commission, responsible for engineering technology programs, performed the accreditation function.

The accreditation of plastics and polymer engineering technology, a bachelor's degree major, is one of only three ABET accreditations in the country. The other two accredited programs are at Penn State Erie, Behrend College and Pittsburg State University in Kansas.

Penn College's surveying technology major provides graduates with an associate of applied science degree. Both majors are under the School of Industrial & Engineering Technologies.

ABET is primarily responsible for monitoring, evaluating and certifying the quality of engineering, engineering technology and engineering-related education in colleges and universities in the United States.



Young artists

Children compare their masterpieces in the Castle Creation class at the HUB Center for Arts and Crafts, above. Students made castles, like the ones pictured at right, in the class, taught by Lisa Hill. For information on the variety of classes offered by the center, call (814) 863-0611.



Photos: Greg Grieco

Partings

Fayette bids farewell to four

The Penn State Fayette campus recently recognized four faculty and staff members who have announced their retirements.

Paul Agate has retired after 31 years of service at Penn State. Agate began his career as a physical education instructor and later held the positions of assistant professor of kinesiology and director of athletics, intramurals and recreation. He served as ombudsman and faculty representative to the alumni society and was the recipient of both the Outstanding Faculty Award and the Public Service Award.

Don Leapart has retired after 31 years of service at Penn State Fayette. After beginning his career as an instructor of accounting, Leapart eventually became professor of accounting and management information systems. He served as The Smell College of Business Administration's representative to the Faculty Senate and as chair of the Senate; was an active member of the Fayette campus Speakers Bureau; and served on various faculty committees. Leapart is a certified public accountant and a member of both P.I.C.P.A. and A.I.C.P.A. He assisted with the Fayette campus' basketball team for 26 years.

Nancy Treat has retired after more than 19 years of service at Penn State Fayette, where she served as assistant professor of human development and family studies. She served as the acting director of academic affairs, a member of the University Faculty Senate, chair of the Fayette Campus Faculty Senate and Health and Human Development College representative. During her career at Penn State, Treat received various research grants.

Doris Wright-Coldren has retired after 29 years of service. She began her career as a part-time English instructor and since then has served as Fayette campus' English teachers representative for the Commonwealth Educational System and as a member of the University Faculty Senate and chair of the Fayette campus senate. At Fayette, Coldren served as the coordinator for the Division of Undergraduate Studies, University Scholars Program, English 4 testing, and the Learning Enrichment Center, which she established. She received the OKSAF Research Grant in 1989 and numerous other awards throughout her career.

Maintenance worker served for 26 years

Robert W. Schroeder has retired from Penn State Altoona, after 26 years of service. Schroeder worked for Physical Plant as a maintenance worker.



ROBERT W. SCHROEDER

According to his supervisor, Schroeder was always flexible and willing to take on a job.

"Bob's retirement is his gain, but Penn State Altoona's loss. I always appreciated his candor and honesty — two attributes from which you can never retire," said Rick Wareham, his supervisor.

Several retire from University after many years of service

Sidney E. Barnard, professor of food science in the College of Agricultural Science, from May 1, 1964, to March 1.

Barbara F. Bernard, staff assistant V, University Libraries, from Jan. 28, 1965, to April 1.

Henry D. Bretherick, operations center coordinator, The Hershey Medical Center, from Jan. 17, 1972, to March 28.

Carole A. Brobeck, library assistant II, University Libraries, from Feb. 1, 1967, to April 1.

Betty L. Butler, residence hall utility worker, Housing and Food Services, from Jan. 3, 1983, to June 14.

Carol A. Crawford, campus health services nurse, Altoona campus, from Feb. 6, 1978, to June 16.

Martha M. Dailey, staff assistant VI, College of the Liberal Arts, from June 15, 1970, to May 31.

Mary Ann Dobransky, staff assistant VI at Penn State McKeesport, from Aug. 15, 1977, to June 1.

Marjorie A. Eakin, nutrition adviser, College of Agricultural Sciences, from June 16, 1980, to June 1.

Rosella F. Fetterolf, staff assistant IV, University Libraries, from Nov. 1, 1972, to April 1.

Virginia E. Fetters, press operator, in Business Services, from Sept. 23, 1966, to March 29.

Sandra L. Ficarro, staff assistant VI in Computer and Information Systems-Administrative, from April 1, 1965, to April 1.

Sue Y. Garber, staff assistant V at The Hershey Medical Center, from Feb. 27, 1984, to May 28.

W. Thomas Gingham, research support technologist III, Research and Graduate School, from March 1, 1983, to June 1.

Robert A. Guiser, senior computer specialist in Computer and Information Systems-Administrative, from Nov. 2, 1970, to April 1.

Gordon A. Hamilton, professor of chemistry, Eberly College of Science, from Sept. 1, 1966, to April 1.

D. Fred Horner, coordinator, equipment and stock room, Intercollegiate Athletics, from Sept. 25, 1967, to April 1.

Beverly M. King, staff assistant VIII, College of Education, from Jan. 13, 1975, to May 31.

Marianne V. Matich, staff assistant VI at Penn State Beaver, from July 1, 1983, to June 1.

Marion R. Miles, nutrition adviser in the College of Agricultural Sciences, from Jan. 5, 1981, to May 1.

Garin L. Moore Sr., assistant manager environmental services at The Hershey Medical Center, from Oct. 4, 1976, to May 1.

Thomas H. Obourn, senior extension agent in the College of Agricultural Science, from May 21, 1962, to May 1.

Gilbert R. Steele Jr., director of special projects in Computer and Information Systems-Telecommunications, from Jan. 3, 1984, to May 1.

Miriam R. Smith, staff assistant VI, Corporate Controller's Office, from Aug. 1, 1981, to May 31.

Kenneth L. Wood, cutting machine operator, Business Services, from Feb. 1, 1968, to April 27.

Promotions

Staff

Mary E. Litzinger, quality and planning consultant/facilitator in Office of the Executive Vice President and Provost.

Dayna R. Lowe, staff assistant VI in Business Services.

Jeffrey F. Luck, manager, Information Systems in Continuing and Distance Education.

Steven A. Maczuga, information administration Vice Provost and Dean for Enrollment Management and Administration.

Michelle A. Marquardt, staff assistant V in The Smell College of Business Administration.

James B. McGinley, network coordinator in Computer and Information Systems-Telecommunications.

Robert L. McLaughlin, senior communications engineer in Computer and Information Systems-Telecommunications.

Elaine M. McReynolds, conference planner at Penn State Great Valley.

Theodore A. Mellors, project coordinator IV at Penn State Fayette.

Mary A. Metz, administrative assistant I in The Smell College of Business Administration.

Kevin M. Moroney, assistant director, CBEL in Computer and Information Systems-Center for Academic Computing.

Ellen C. Moyer, administrative assistant II in Eberly College of Science.

Jack E. Moyer, manager, materials and cable assignment in Computer and Information Systems-Telecommunications.

Norma J. Muck, staff assistant V in

Continuing and Distance Education.

Todd E. Myers, network coordinator in Computer and Information Systems-Telecommunications.

Robert E. O'Connor, systems engineer II in Computer and Information Systems-Administrative Systems.

Mark F. Paige, senior network coordinator in Computer and Information Systems-Telecommunications.

Lauren M. Palmer, staff assistant VIII in Applied Research Laboratory.

Virgil N. Perry, counselor at Penn State Delaware County.

Awards

Authors awarded Rhone-Poulenc Prize

The General Prize in the 1997 Rhone-Poulenc Prize for Science Books, which has been described as the most prestigious prize for science writing in the English language worldwide, has been awarded to Alan Walker, distinguished professor of anthropology and biology, and Pat Shipman, adjunct associate professor of anthropology. The Penn State husband-and-wife team win approximately \$16,500 for their book titled *The Wisdom of the Bones: In Search of Human Origins*.

The award, which is sponsored by the British Science Museum, the Committee for the Public Understanding of Science (COPUS), and the Rhone-Poulenc company, honors the best popular science book written for the nonscientist reader and published in England during 1996.

The Wisdom of the Bones, published in the United States by Alfred A. Knopf and in England by Weidenfeld & Nicolson, has been hailed as a thrilling story about the day-to-day realities and higher goals of searching for the origins of modern humans. It tells the story of Walker's discovery in Kenya of the most complete skeleton ever found of *Homo erectus*, a species that proved to be an ancestor of modern humans. The book, selected from more than 80 entries, will be reprinted by Rhone-Poulenc and a copy will be sent to every university, college and high school in England.



ALAN WALKER



PAT SHIPMAN

Mont Alto cites two for their outstanding service

Two Penn State Mont Alto staff members received awards for outstanding service to the campus.

Cathy Staggs, a member of the food service staff, received the Support Service Excellence Award. She has been with the Mont Alto staff for 11 years and resides in Greencastle.

Judy Mellott, program specialist for the Department of Continuing Education, received the Outstanding Service to the Campus Award. She has worked at the Mont Alto campus for 13 years and resides in Waynesboro.

Each year, an awards committee reviews a list of candidates who have been nominated by their colleagues for either the Outstanding Service to the Campus Award or the Support Service Excellence Award.

Penn College honors faculty for distinguished teaching

The Pennsylvania College of Technology announced 1997 Distinguished Teaching Awards. The highest level of college recognition for faculty, the "Master Teacher Award" was presented to **Dennis E. Fink**, assistant professor of horticulture. Receiving "Excellence in Teaching Awards" were **William B. Urosevich**, assistant professor of biology, and **Monica J. Lanczak**, instructor of food and hospitality/culinary arts.

Fink graduated from Penn College's predecessor, Williamsport Area Community College, in 1973 and began employment at the college in August 1974 as an instructor of horticulture. He was promoted to assistant professor in 1995. In addition to teaching, Fink formerly owned and operated a floral and greenhouse business for a number of years.

One of Fink's nominators stated, "He gives you the feeling you can reach your goals and believe in yourself. He treats everyone with a great deal of respect." The Master Teacher is chosen from nominees having at least six years of successful teaching experience and is representative of the best of faculty dedicated to providing the highest quality of experience for students.

Urosevich earned a bachelor of arts degree in chemistry from Wilkes University in 1976, a master of science in systems management from the University of Southern California in 1979, and a doctor of optometry from Pennsylvania College of Optometry in 1983. Urosevich also served in the U.S. Army. He began working at Penn College in August 1992 as a part-time, substitute

instructor of anatomy and physiology. He was employed full time as instructor of biology in August 1993 and promoted to assistant professor that same year. In addition to teaching, Urosevich is the senior partner at Urosevich Eye Associates, a primary care optometry practice in Lewisburg.

"I've never seen or been instructed by a more intelligent, enthusiastic or capable instructor," wrote one nominator of Urosevich.

Lanczak earned a bachelor of fine arts degree from Carlow College, Pittsburgh, in 1975. She received certification as a pastry cook in 1981 and certification as a pastry chef in 1984, both from the Los Angeles Trade and Technical College, American Culinary Federation Apprenticeship. A native of the Pittsburgh area, Lanczak previously worked as a pastry chef at a number of gourmet restaurants and hotels and also served as a culinary institute instructor. She began full-time employment at Penn College as an instructor of food and hospitality/culinary arts in August 1994.

The Distinguished Teaching Awards are sponsored by the Penn College Foundation, with the Master Teacher Award recipient receiving \$1,000 and the two Excellence in Teaching Award honorees each earning \$500. The Distinguished Teachers also receive the opportunity to work on special college projects.

Since 1982, 47 full-time faculty members have been honored for their excellence in teaching and outstanding service to students.

Faculty at Hazleton campus lauded for excellence

Dianna L. Bourke, assistant professor of biology at Penn State Hazleton, has received the 1997 George T. Bobby Excellence in Academic Advising Award. This award is given annually to a faculty member whose academic advising maintains the highest standards.

In addition, **Patricia D. Ferry**, instructor of medical laboratory technology and director of the Medical Laboratory Technology Program at Penn State Hazleton, received the 1997 Teaching Excellence Award from the Hazleton Education Council, the Campus Advisory Board. The council established this award in 1994 to recognize outstanding teaching.

Before assuming her current post at Penn State Hazleton in 1991, Bourke had been course director of the University of Pittsburgh's Department of Physical Medicine and Rehabilitation Residency Program since 1986. In 1985, she was an instructor of human microscopic anatomy at the Community College of Allegheny County.

Two earn kudos for teaching and research excellence

Penn State Beaver honored two faculty members for excellence in teaching and research.

John M. Simpson, assistant professor of chemistry, was awarded the Beaver Campus Advisory Board Teaching Award which recognizes outstanding classroom instruction. Simpson, who has been at Beaver campus for 27 years, was nominated by the students for his availability to them and for the clarity, enthusiasm and organization of his class presentations.

Chuntao "Chris" Wu, assistant professor of math-

Bourke received her B.S. in biology from Penn State and a Ph.D. in anatomy and cell biology from the University of Pittsburgh. She also completed two postdoctoral fellowships and a postgraduate research assignment at the University of California. She has received numerous research grants, published several abstracts and refereed a variety of biology articles.

Ferry has been a Penn State Hazleton faculty member since 1981, serving in her current capacity since 1987. She was previously a lecturer and coordinator of the Medical Laboratory Technology Program. Before joining Hazleton, she worked at St. Joseph's Hospital, Evangelical Hospital and Geisinger Medical Center.

Ferry earned a bachelor of science degree from Bloomsburg University and studied medical technology at Geisinger, where she became registered with the American Society of Clinical Pathologists. She is currently pursuing a master's degree in biology at Bloomsburg.

ematics, was awarded the Beaver Campus Advisory Board Faculty Research Award which recognizes excellence in scholarly research and creative activities. Wu, who has been at Beaver campus since 1992, received the 1994-95 Advisory Board Teaching Award.

Both Wu and Simpson have published in scholarly journals and delivered numerous presentations.

Since the origination of the awards, the Beaver Campus Advisory Board has honored nine faculty members with the teaching award and six faculty members with the research award.

Awards

Worthington Scranton honors three for outstanding service

Penn State Worthington Scranton campus recently announced awards for outstanding service, scholarship and teaching. Honored were Patricia Sweeney, Marilyn Daniels and the late Walter Weber.

Sweeney received the 1997 Gertrude Hawk Chocolates Award. Instituted in 1979 by then-company president Elmer Hawk, the award recognizes a member of the campus faculty or staff who exhibits outstanding performance and service in academic endeavors, co-curricular activities and service to the community.

Sweeney received her master of science degree in nursing from the State University of New York-Binghamton and bachelor of science in nursing from Wilkes University. In addition to serving as an instructor of nursing at the Worthington Scranton campus, Sweeney is a family nurse practitioner. A registered nurse since 1980, Sweeney served as a staff nurse at Community Medical Center's Emergency Department and was an instructor in its former diploma program.

Daniels, associate professor of communications, was awarded the Dr. and Mrs. Richard J. Matthews Award for Excellence in Scholarship. The award was established in 1988 by Dr. Richard and Sally Matthews to recognize outstanding performance in scholarship and research. Daniels received her bachelor of arts and master of arts degrees in communication from the William Paterson College of New Jersey and her doctoral degree in communication from New York University.



PATRICIA SWEENEY



MARILYN DANIELS



WALTER WEBER

Daniels joined the Penn State faculty in 1990. Before her appointment, she taught at Central Connecticut State University, the University of Charleston and the William Paterson College of New Jersey. Active at the state, regional and national levels of the Speech Communication Association, Daniels was awarded the association's 1993

Donald H. Ercoyd Emerging Scholar Award for her research on sign language and language acquisition skills in hearing children. She is the 1992 recipient of Penn State's Roy C. Buck Award, which was given to promote her study of the pedagogy of sign language. She received the Penn State Worthington Scranton Campus 1994 Pharmakon Award for outstanding performance in scholarship and research and 1996 Advisory Board Award for excellence in teaching.

The 1997 Campus Advisory Board Award for Excellence in Teaching was given posthumously to Weber, who served as an instructor of speech communications and theatre at the Worthington Scranton campus. Funded in 1988 by the Campus Advisory Board, the award recognizes a faculty member who has demonstrated innovative and dedicated teaching techniques in his/her academic endeavors.

Weber received his master's degree in theatre communications and bachelor's degree in theatre arts from East Stroudsburg University. He was a faculty member at the Worthington Scranton campus from 1982 until his death in February.

Associate professor named Sloan Research Fellow

The Alfred P. Sloan Foundation has selected Michael J. Natan, associate professor of chemistry, as an Alfred P. Sloan Research Fellow. The foundation awards 100 fellowships annually to faculty in the United States and Canada who are in the early stages of their research careers and who have exceptional promise to contribute to the advancement of knowledge in physics, chemistry, computer science, mathematics, neuroscience or economics.

Natan's research involves the development of chemical methods to make macroscopic materials from particles as small as 10 (superscript)-9 meters in diameter, known as nanoparticles. His work focuses on the self-assembly of single or multiple layers of gold (Au) nanoparticles, which have surface properties that affect the material's electrical conductivity, biocompatibility, and the absorption and reflection of light, among other properties. These surface properties are important for devices involving biological and environmental sensors, as well as for materials applications.



MICHAEL J. NATAN

Natan received his bachelor of science degree, cum laude, from Yale University in 1981 and his doctoral degree from the Massachusetts Institute of Technology in 1986. From 1986 to 1988 he was a National Institutes of Health Postdoctoral Fellow at Northwestern University and from 1988 until 1991 he was a joint post-doctoral fellow at Northwestern University. He joined Penn State as an assistant professor in 1991 and became an associate professor in 1996. He received the Beckman Young Investigator Award in 1994.

Begun in 1955, the Sloan Research Fellowship Program is one of the oldest fellowship programs in the nation. Sloan Fellows receive highly unrestricted grants of \$35,000 for a two-year period, with which they are free to pursue whatever lines of research inquiry are of most interest to them. According to the foundation, this flexibility often is of great value to young scientists who are at a pivotal stage in establishing an independent research program.

English professor wins inaugural Lion Heart Award

Leonard Mustazza, professor of English and director of academic affairs at Penn State Abington, has been named the first recipient of the Lion Heart Award by Abington's Class of 1997.



LEONARD MUSTAZZA

The award, created to honor someone who "has added to the life of the Abington campus and ... expresses the spirit and integrity of the Pennsylvania State University," was given at Abington's spring commencement.

Mustazza was described by members of the class as "bright, competent, generous, tough, fair, creative, approachable, productive, insightful, tenacious, compassionate and understanding."

Mustazza joined the University in 1983 as a lecturer in the department of English at Penn State Opotuz (now Penn State Abington). He was granted early tenure and promoted to associate professor in 1989, and was named professor in 1991. In 1992, he was named campus director of academic affairs.

A prolific author, Mustazza has written, co-authored or edited seven books and more than 25 scholarly papers, won several University teaching awards including The George W. Ahterton Award for Excellence in Teaching, and has played a pivotal role in shaping Penn State Abington. Mustazza received his Ph.D. in English from The State University of New York at Stony Brook.

Center director named Entrepreneur of the Year

John E. Werner, director of Penn State's Ben Franklin Technology Center of Central and Northern Pennsylvania (BFTC/CNP), has been named Entrepreneur of the Year in the Support of Entrepreneurship category in the 1997 Central Pennsylvania Entrepreneur of the Year Awards Program. As an award winner, he is now eligible to compete for the National Entrepreneur of the Year awards in November.

The awards program recognizes successful entrepreneurs and those who encourage entrepreneurs.

As head of BFTC/CNP, Werner is responsible for implementing Pennsylvania's Ben Franklin technology-based partnership program in a 37-county region. The BFTC/CNP invests matching funds in the development of new or improved products and processes with start-up, small and medium size Pennsylvania manufacturing and technology-based companies.

A Penn State graduate with B.S. and M.S. degrees in metallurgy, Werner also has been honored with ASM International (the Materials Information Society) Chapter Awards, the Bradley Stoughton Award and the David Ford McFarland Award for outstanding contributions and achievements in metallurgy. He also is a Penn State Centennial Fellow of the College of Earth and Mineral Sciences.

Penn Staters

Robin Becker, associate professor of English, has won the 1996 Lambda Literary Award in Poetry for her collection of poems, *All-American Girl*. *All-American Girl*, Becker's fourth collection was published by the University of Pittsburgh Press as part of its Pitt Poetry Series.

The Lambda Awards, administered under the aegis of the Lambda Literary Foundation, recognizes excellence in gay and lesbian publishing by mainstream, university and small presses. In its ninth year, the awards involve a three-tier selection process. A list of nominees is assembled from ballots sent in by readers. This year, nearly 50,000 ballots were distributed nationally in all categories.

Robert Bernheim, professor of chemistry, was appointed chairman for Chemical Sciences by the National Research Council Associateships Program. He also serves on the advisory committee for the Associateships Program. The objective of the program is to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice, that are compatible with the interests of various federal laboratories. Indirectly, the associateships make available to the broader scientific and engineering communities the research facilities that exist in federal laboratories.

John W. Black, associate executive director of the Penn State Alumni Association and editor of the *Football Letter*, received the 1997 Lion's Paw Medal Award. The medal honors those who have contributed notable service to the University.

John Comerford, associate professor of dairy and animal science, received the Industry Service Award from the Pennsylvania Cattlemen's Association.

Dennis K. Davis, professor of communications, has been granted a Fulbright to attend a seminar on German media and communication science. This group seminar examines the political, economic and social institutions of Germany, including the five new states in Eastern Germany, in light of their recent history and current development.

Irwin Feller, director of the Institute for Policy Research and Evaluation and professor of economics, gave an invited paper on "Relationships Between Universities and the Private Sector in the Transfer of Technology" at the Eisenhower Exchange Fellowship Conference on "Public and Private Sector: Lessons from Worldwide Experiences," Alicante, Spain.

Richard M. Fox, professor of psychology at Penn State Harrisburg, presented three invited talks on "The Treatment of Severe and Challenging Behavior" in the United Kingdom. The talks were sponsored by St. Andrews University in Scotland and Keele University in England and were delivered in Glasgow, St. Andrews and Staffordshire, England.

Penn State's Urban and Community Forestry Program received the 1997 Volunteer Program National Award in the Sponsored Volunteer Service category. The program is administered by **Henry Gerhold**, professor of forest genetics; **Bill Elmendorf**, instructor in urban and community forestry; **Vincent Cotrone**, urban forester based in Luzerne County; **Julianne Schiefer**, urban forester based in Monticomey County; **Mark Remeck**, urban forester based in Washington County; and **Scott Sjolander**, urban forester based in Crawford County.

Elizabeth Hanley, associate professor of kinesiology, has been elected as president of the National Folk Organization (NFO) of the United States, for a two-year term.

Pu-qi Jiang, director of orchestras, and **James Lyon**, associate professor of violin, were recently guests of the National Music Conservatory/Noor Al Hussein Foundation in Amman, Jordan, where Massimo Jiang conducted an orchestral performance and Lyon was featured as soloist in the Max Bruch Concerto in G minor. In addition, they both conducted master classes for conservatory faculty and students.

Amir Khalilollahi, assistant professor of mechanical engineering at Penn State Erie, Behrend College, authored a technical paper with mechanical engineering seniors **John Gardner**, **Paul Gunshore** and **James Kuhn**. The paper, "Modeling for Design of Swaging Dies," was presented by Khalilollahi at the IASTED/ISMM International Conference on Modeling and Simulation.

Mehdi Khosrowpour, associate professor of information systems at Penn State Harrisburg, delivered several talks, speeches and seminars.

He was keynote speaker at the 1997 Arab Business Conference in Kuwait City, Kuwait, where he spoke on "The Role of Information Technology and Globalization of Arab Businesses." He also conducted a seminar on "Information Technology and Global Strategic Planning" at the University of Wollongong, Sydney, Australia; delivered an invited talk on "The Human Side of Information Technology Management" at the University of Massey, Auckland, New Zealand; and conducted a seminar on "The Role of Information Technology in Formulation of Global Business Strategies" at the University of Auckland, Auckland, New Zealand.

Max King, coordinator, University Scholars Program, and affiliate assistant professor of education, has been elected to the Board of Governors of the National Conferences on Undergraduate Research. NCUR brings together more than 2,500 undergraduates involved in scholarly and artistic activities.

Robert LaPorte Jr., professor of public administration and political science in the Department of Political Science, gave an invited paper on "In Pursuit of Good Governance: Political Developments in Pakistan—50 Years of Independence, Progress, Problems and Prospects in Washington, D.C." The conference was sponsored by the Woodrow Wilson International Center for Scholars.

Cynthia Zelfi Massie, assistant professor of health care administration and policy at Penn State Harrisburg, has been elected president of the Aging Politics and Policy Group within the American Political Science Association.

Eve Munson, assistant professor of communications, was selected by the Association for Education in Journalism and Mass Communication (AEJMC) and the Freedom Forum Media Studies Center to participate as a teaching fellow in a weeklong seminar in Bloomington, Ind.

Masatoshi Nei, Evan Pugh professor of biology and director of the Institute of Molecular Evolutionary Genetics, has been elected as an honorary member of the Japan Society of Human Genetics for his "important contributions to human and evolutionary genetics."

Nei is the founding director of the Institute of Molecular Evolutionary Genetics, an interdisciplinary organization that fosters research on the evolution of genes and organisms. He is a world leader in evolutionary biology and has helped shape the way in which the field of molecular population genetics and evolution has developed.

Robert E. Newnam, associate director of the Intercollege Materials Research Laboratory, has been named Distinguished Life Member by the trustees of the American Ceramic Society. The award was given in recognition for his pioneering research on ceramic composites and their application as "smart" materials and devices; for his "exceptional guidance of students; and for his devotion to international scientific exchange and cooperation."

B. Allan Quigley, associate professor of education, recently received the 1997 Kenneth J. Matran Leadership Award, given by the Commission on Adult Basic Education. The award is considered the highest award in America for work in the field of adult literacy and basic education.

The American Ceramic Society inaugurated a new annual lecture, "Frontiers of Science and Society Rustum Roy Lecture," named after **Rustum Roy**, Evan Pugh professor of the solid state, Intercollege Materials Research Laboratory. The new lectureship recognizes Roy's active role for more than 30 years in the science and society field.

Michael Silsbee and **Barry Scheetz** from the Intercollege Materials Research Laboratory (IMRL), were recently honored by the Pennsylvania Environmental Defense Foundation for the contributions of the Materials Research Laboratory in the reclamation of Babb Creek, Tioga County (1990-1997). The Pennsylvania Department of Environmental Protection has identified Babb Creek watershed in Tioga County as part of Pennsylvania's efforts under the Appalachian Clean Stream Initiative program. **Dean Arnold**, assistant professor of aquatic ecology in the Pennsylvania Cooperative Fish and Wildlife Research Unit at Penn State, was also honored. Arnold has been working with Pennsylvania's Task Force on Dirt and Gravel Roads to reduce the environmental impact of mining activity on roads.

Jerome D. Williams, associate professor of marketing in The Smear College of Business Administration, has accepted a two-year appointment as a visiting senior fellow at the National University of Singapore (NUS). NUS is the country's major research university and Williams will conduct studies on the effects of culture on long-term business relationships and strategic alliances. In addition, he will teach global marketing at the graduate and undergraduate levels, and in the NUS executive education programs as well.

Rita Williams, college health nurse at Penn State Erie, Behrend College, was recently awarded the St. Anne Medal, the highest award in Girl Scouts. The medal was given in recognition of her contribution to the spiritual development of Girl Scouts.

Sam Y. Zamrik, professor of engineering mechanics, was appointed to the American Society of Mechanical Engineers' delegation, which visited Russia on May 19. Zamrik chaired the symposium on life assessment of aged structural components of nuclear power plants, and presented a talk on testing methods and modeling of remaining structural life.

Research

When tested, drivers will defend their parking spaces

By Vicki Fong
Public Information

As you get into your car at the shopping mall, you notice a car waiting to take your parking space. You hurry to get your keys out and drive away. But that's not true in most cases, according to researchers.

"Most people think they leave faster, but in reality, they take more time to leave when another car waits near their space," said researcher Barry Ruback, professor of sociology and crime, law and justice. "And if the other driver honks the horn, people will really slow down their departure just to occupy the parking space a little longer."

The response is called territorial behavior, which involves marking or defending a location in order to indicate a particular place. This behavior is likely to occur if the place has desirable resources such as game for hunting.

"Like our ancestors, we humans still defend territories, but we do so even when they are temporary public areas," Ruback said. This study shows that people demonstrate this response even when the parking space no longer has value for them. People appear to do it merely to prevent another driver from possessing the space.

"Even though people were observing the parking space, departing drivers



Research by Barry Ruback, professor of sociology and crime, law and justice, has shown that people tend to be possessive regarding public parking spaces — even when they're ready to exit the space.

Photo: Greg Grieco

took longer when someone else wanted the space than when no one else wanted the space," the sociologist said. "This reaction is counterproductive because it takes more time and the driver's goal was to leave the space anyway."

"But our research shows that people do become territorial in the face of another driver and

become even more territorial when the driver acts very intrusively, such as honking the car horn," Ruback said.

He and Daniel Jueng conducted three studies in a parking lot at a metropolitan mall.

First, the researchers and a team of students observed 200 departing cars and compared reactions of drivers who were



Barry Ruback

and who were not intruded upon by another car. Then the researchers conducted an experiment with 240 cars by alternately sending in cars and introducing intrusions like honking. Then, they asked 100 individuals to fill out questionnaires about how they would behave under such conditions.

"Respondents saw themselves as more polite than others with regard to a silently waiting driver, but less polite than others with regard to a honking driver," Ruback said. "But their actions did not support their stated beliefs."

One possible explanation is that people were distracted by the waiting car and became more cautious, leaving the space slowly to avoid a collision with the other car. But a honking car should actually then prompt people to leave even faster, and they don't. In fact, people spend even more time making their exit, Ruback said.

Researchers to study the spread of rabies

A team of Penn State and Commonwealth researchers are beginning to track the spread of rabies in Pennsylvania with an eye to limiting the distribution of this disease. "Rabies is an emerging public health issue," said Toni Miles, professor of biobehavioral health and director of the Center for Special Populations.

"Pennsylvania Department of Health data indicates that raccoon rabies

has increased from no cases in 1981 to more than 300 cases in 1996."

This epidemic poses a significant risk to domesticated animals and ultimately to humans. An estimated 15,000 people in Pennsylvania are bitten by animals every year. Some of these bites are inflicted by unvaccinated domesticated animals. Others are from wild animals such as raccoons.

"Although raccoon-transmitted rabies has not

yet been responsible for human deaths, the cost of post-exposure rabies treatment in humans and the cost of domestic animal control are considerable," said Miles.

In the U.S., post-exposure treatment ranges from \$1,500 to \$5,000 per person treated.

The Center for Special Populations in the College of Health and Human Development is sponsoring this initiative. The Penn

State team is headed by Dale Moore, research associate in veterinary science, and includes George Vogler, associate professor of biobehavioral health and associate director of the Center for Special Populations; Donna Pequet, professor of geography; and Peter Gould. Evan Pugh professor of geography. The Pennsylvania departments of health and agriculture will participate in the study.



Keep your cookout safe from food-borne illness

Beware of barbecue bacteria! With the grilling season well under way, and the smell of cookouts a constant, don't let food poisoning spoil your dinner. Along with outdoor cooking comes the high risk of food-borne illnesses.

Stephen Knabel, associate professor of food science, warns that food-borne illnesses peak between May and August, with the highest incidence among children 4 years old and younger. He urges parents to ensure safe cooking of "raw animal products and other foods that can harbor bacteria, the major cause of food poisoning."

The hamburger, a major culprit of food poisoning, should be cooked until its center isn't pink and its juices run clear.

Some other tips suggested by Knabel include:

- Keep hot foods hot and cold foods cold.
- Never eat undercooked meat.
- Keep raw meat, and anything that touches it, separate.
- Chill leftovers immediately.

Symptoms of food-borne illness include stomach pain, nausea, vomiting, diarrhea, headaches and fever.

It's more than just a pretty garden

How does your garden grow? Maybe not with bluebells and cockshells, but hopefully with blooming flowers. If not, stop by the Penn State Horticulture Trial Gardens for some knowledge and inspiration.

The Trial Gardens, a part of Penn State since 1933, serve as an All-American Selections testing site which provides gardeners with the opportunity to determine which plant varieties are best suited for their home gardens. The Trial Gardens, at the corner of Bigler Road and Park Avenue on the University Park campus, are open all year from 9 a.m. to dusk. Interested gardeners can join Friends of the Gardens, a public support group.

PROMOTIONS

→ Effective July 1, 1997

The following faculty in the Intercollege Research Programs have been promoted for the 1997-1998 fiscal year.

■ INTERCOLLEGE MATERIALS RESEARCH LABORATORY

To Senior Scientist

Dinesh Agrawal

■ APPLIED RESEARCH LABORATORY

To Senior Scientist

Ram B. Bhagat

To Senior Research Engineer

Mark W. McBride

Allen L. Treaster

To Research Engineer

Clifton C. Merchant

William J. Sabol

Fred E. Smith

Lewis C. Watt

To Associate Research Engineer

Gregory A. Babich

Steven J. Barnett

Carl S. Byington

Anthony J. Cutezo

Kevin J. Farrell

Michael J. Gustafson

Michele R. Keller

John M. Kenny

Daniel E. Kerstetter

James J. Kisenwether

Judith Loke

Martin A. Mazur

G. William Nickerson

George Parides

Robert H. Rivoir

Robert M. Seland

William A. Straka

Dennis B. Wess



Straight as an arrow

Brian Ishler, left, and Dale Eckley measure while Paul Curtis paints a line on the student fields in front of University Salvage on the University Park campus. A variety of sports camps and other activities keep the Department of Athletics stadium grounds crew busy all summer.

Photo: Greg Grieco

Obituary

Senior administrator dies unexpectedly

Jack P. Royer, senior associate dean of the Commonwealth Education System, died July 17 while on his way to work. He was 49.

He was driving near the University Park campus when his vehicle swerved off the road and hit some signs. Police said Royer most likely died of natural causes, and not from the minor traffic accident.

Royer joined the University in 1987 as director of academic affairs at Penn State Fayette and later moved to University Park as associate dean for undergraduate education. In 1991, he was named senior associate dean of the CES and was involved with the restructuring of the CES that became official on July 1.

Royer graduated with honors from Penn State in 1969 with a bachelor's degree in forest technology. He received a master's degree in environmental systems management from American University in 1973 and a doctorate in natural resources from Cornell University in 1980. Before joining Penn State, he worked as a photographer for the U.S. Army and then became assistant professor and acting director of the Center for Resource and Environmental Policy Research at Duke University.

In addition to his duties with the University, Royer was active in State College Little League, coaching the State College National tournament team.

Royer is survived by his wife, Patricia, and two children.

PENN STATE



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In addition, back issues of Intercom from 1995 on, can be searched online at <http://www.psu.edu/intercom/>. Hit the "Search" button and type in the word or words you wish to use as locators.



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Volume 26, Number 37



Associate professor finds new species

From the Eberly College of Science and the National Oceanographic and Atmospheric Administration

A team of university scientists has discovered what appears to be a new species of centipede-like worms living on and within mounds of methane ice on the floor of the Gulf of Mexico, about 150 miles south of New Orleans.

Although scientists had hypothesized that bacteria might colonize methane ice mounds, called gas hydrates, this is the first time animals have been found living in the mounds of frozen water and natural gas.

The discovery of dense colonies of these

one-to-two-inch-long, flat, pinkish worms burrowing into a mushroom-shaped mound of methane seeping up from the sea

TO LEARN MORE

To learn more about the find, go to the Web at www.bio.psu.edu/fishermain.html

floor raises speculation that the worms may be a new species with as yet unknown influence on these energy-rich gas deposits.

Using a minisubmarine, scientists observed the worms using their two

See "Ice worms" on page 3

Search for dean of largest college turns to World Wide Web for help

By LISA M. ROSELLINI
Public Information

As the University moves through its reorganization, the task of finding a leader for its newest and largest college—which is spread from one end of the state to the other—has been a challenge that only technology could overcome.

The search for a dean for the Commonwealth College has hit the Web and, so far, seems to have conquered the first hurdle in the geographic gap that is a hallmark of this new 12-campus entity.

For the first time in its history, Penn State is conducting an online search to fill a position—a top-level one, no less. As the principal academic leader and campus executive officer, the person in charge of the Commonwealth College will oversee the dozen Penn State campuses from Beaver, near Pittsburgh, to Worthington Scranton, in the northeast, and Delaware County in the southeast, with an enrollment of more

than 14,000 students and a budget of about \$60 million.

"The sheer nature of this position, overseeing a college that is so geographically dispersed, called for a search committee that was also geographically dispersed in order to represent the many interests of the campuses involved," said John Bruhn, chair of the search committee and provost and dean of Penn State Harrisburg. "Posting the information on candidates to the Web where only committee members could view it has worked very well."

With the help of the Center for Academic Computing, Human Resources and the Office of Budget and Resource Analysis, a Web site for the 12-member committee was set up so that information like curriculum vitae and references could be downloaded to their computer desktops, eliminating copying and mailing costs and expediting the search process.

See "Online" on page 2

Taking the plunge

A daring swimmer takes a big jump from the high board at the outdoor pool beside the Natatorium on the University Park campus. The recent spell of nice weather, expected to continue through this week, made this leap a refreshing one.

Photo: Greg Grieco

Sigh of relief as tax plan is dropped

Colleges and universities successfully lobbied to exclude from final federal legislation a provision that would have taxed the tuition waivers that many institutions, including Penn State, give

to graduate teaching and research assistants and to the families of faculty and staff members.

In late June, both the House

See "Tax plan" on page 3

Inside



Out-of-class learning

Students majoring in turfgrass science recently experienced their profession first-hand, from laying sod to raking gravel, there's nothing like manual labor for teaching memorable lessons.

See page 13 for the story.



Tricky research

An assistant professor of chemical engineering is working on a way to trick plants into producing their natural defense compounds for commercial use. For more of the story, turn to Focus on Research on page 15.

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GLAD you asked

To submit a question for this column, please send e-mail to the address listed below. Submissions must include a contact name and telephone number so that *Intercom* can verify the source. Requests for anonymity will be honored.

Q: I'm often dodging bicycles on University sidewalks. I know bicycles are not allowed on State College sidewalks and I feel much safer! Why do I have to dodge bikes on campus (and skateboards and rollerblades)?

— Out of Breath at University Park

A: Bicyclists are prohibited from using the sidewalks on campus and this regulation is routinely enforced by University Police Services. While we prohibit bicycles being ridden on sidewalks, we do encourage the use of bicycles as a mode of transportation to and from campus, as well as on campus. In doing so, we have recognized the need to develop a north/south bikeway across campus. Currently, bicyclists travel on Burrows, Shortridge and Bigler roads to get from College Avenue to Park Avenue. Last year, a bicycle path was completed from College Avenue to Pollock Road. In the near future, another is scheduled from Park Avenue to Curtain Road.

In the meantime, we will continue to enforce the regulation prohibiting bicycles on sidewalks. If we become aware of specific conflict areas which are safety hazards, we detail more resources to the areas to provide enforcement, education and solutions.

Skateboards are specifically prohibited on campus because of the damage which results from their use. Rollerblades, however, may be operated on pedestrian walkways, but not on streets or in buildings. Copies of the regulations are provided to everyone who registers a bicycle. They are available in the HUB, Kern, the Parking Office and at each parking kiosk location.

— David E. Storrer
Assistant vice president for safety
and environmental services

Q. Who is responsible for maintaining the bike path that parallels College Avenue along the golf course, from Rider Mazda past O.W. Houts? If the University wants to encourage employees not to drive, it would help to have a safer bike path.

— Peter Kaufman
Applied Research Laboratory
University Park

A: The University certainly does encourage bicycle commuting and has created many routes on campus. The route in question has been designated as a "recreational jogging trail" and as such, is not funded for bicycle trail maintenance by the Office of Physical Plant. Penn State is developing a new Campus Master Plan for University Park and the committee will look at many areas, including bicycle transportation. The committee's recommendations will determine official bike routes for West Campus. We certainly agree on the need for proper and well-maintained bike paths and we will implement as many as possible as funding becomes available.

— Paul D. Ruskin
Office of Physical Plant



Spend a Summer Day

About 5,500 visitors — high school seniors and their families — visited University Park over July 21, 25, 28 and Aug. 1 for Spend a Summer Day, an annual event designed to provide information about the University and give prospective students a taste of campus life. Here, Lew Jiling explains to parents and students the benefits of attending Penn State.

Photo: Greg Grieco

Online

continued from page 1

Edith Hertzog, finance and business systems coordinator in the budget office, said the normal procedure during a search of this type is for committee members to come to Old Main to pick up information packets or attend meetings. Conducting the search in the same manner, however, for such a widespread committee would have forced the process to go longer than its planned December deadline. Hertzog got involved because her office recently posted to the Web the University's operating budget — an expansive document that required some ingenuity to allow it to be viewed by the Web-surfing public. Through the use of Adobe Acrobat, free software that can be downloaded from the company's site, both the operating budget and the information on potential dean candidates could be viewed.

Hertzog said the one difference between the operating budget information and the candidate's information is that the budget was already in a text format, making it easier to post and obtain. Although the original call for nominees and applications for the dean's position asked candidates to submit information via e-mail or on disk, all 65 applicants who applied submitted most of their information on paper, leaving CAC to scan the forms creating larger files.

"There were more than 500 pages that could have been accessed and most of the information ended up being scanned images, so there were some issues in terms of access time," Hertzog said. "We got a lot of positive comments from committee members but the size of the files was a major issue. If we use the same technology again, we will divide the information into multiple files to decrease the time it takes to download."

Bruhn said the file sizes were so large in some instances that some committee members' computers could not hold the information. Those "glitches," as Bruhn called them, have been ironed out and committee members are now reviewing a short list of

information on about 10 to 12 applicants.

"This has been convenient and a real time saver. I'd recommend this type of search to anyone," Bruhn said. "We plan to begin scheduling interviews with people in September, with the idea that we will have a list of about four names to submit to John Brighton by late October or early November."

Applicants for the job ran the gamut from a former college president to Penn State deans and department heads, according to Bruhn who said the position attracted a "fair number of internal nominations" and higher education administrators from "all sectors of the United States."

"Geographically, the applicants have come from all over the United States and we had one from a university abroad," Bruhn said. "Some candidates are Penn State alumni and former faculty members, too. We have an excellent mix of male, female and underrepresented groups. This job is broad in scope and kind of a new venture that drew a lot of people with interdisciplinary skills into the pool."

Bruhn said he has been surprised so far at the group consensus in paring down the list of applicants to the dozen who "made the cut."

"People had a pretty good idea in their minds of what they were looking for," Bruhn said.

And what is the committee looking for?

"Someone who has had experience working with more than one campus because we need someone who can bring these 12 campus locations together conceptually and spiritually," Bruhn said. "Innovative, creative and sensitive to diverse student needs."

Bruhn also said someone with strong interpersonal skills would be needed to deal with the many different personalities in the various regions of the state.

The search committee chair acknowledged that the physical location of the Commonwealth College — all over the Pennsylvania map — will prove to be a challenge to anyone who accepts the job, but that new technology has managed to clear the first hurdle in bringing people together. The committee's goal is to name a new dean — one who can galvanize the campuses' efforts — by the end of the year.

Ice worms

continued from page 1

rows of oar-like appendages to move about the honeycombed, yellow and white surface of the icy mound. The researchers speculate that the worms may be grazing off bacteria that grow on the methane or are otherwise living symbiotically with them.

"The old view that the deep sea bottom is a monotonous habitat needs to be discarded. These worms are the major players in a new and unique marine ecosystem," said Charles Fisher, an associate professor of biology at Penn State and the expedition's chief scientist, who discovered the methane ice worms in waters 1,800 feet deep with sub pilot Phil Santos of the Harbor Branch Oceanographic Institution.

The scientists also have managed to keep a number of the exotic worms alive in shore-based laboratories for further study.

"These are not just another common worm in the mud," Fisher said. "We now know that these higher-order organisms can live right on methane hydrates. If these animals turn out to be ubiquitous on shallow seafloor gas deposits, they could have a significant impact on how these deposits are formed and dissolve in seawater and on how we go about mining or otherwise harvesting this natural gas as a source of energy."

"It's very cool that while we're busy speculating about life on other planets we continue to discover new forms of life in the most unlikely habitats on Earth," said Erin McMullin, a Penn State graduate student and a member of the research expedition that discovered the methane ice worms.

Methane ice, a gas hydrate or compound, forms naturally at the high pressure and low temperature of the deep sea, but is usually buried deep in marine sediment. The Gulf of Mexico is one of the few places where hydrate can be found exposed on the ocean bottom. Occasionally this seeping, solid methane bursts through in mounds, often six to eight feet across. Here on the ocean bottom, scientists also find fields of tubeworms, beds of mussels and clams, and even pools of brine surrounded by millions of mussels.

The first leg of the 10-day expedition, which ended July 19, was carried out aboard the Harbor Branch Research Vessel Edwin Link and sponsored by the National Oceanographic and Atmospheric Administration's National Undersea Research Center at the University of North Carolina at Wilmington and the Minerals Management Service of the U.S. Department of the Interior. In addition to Fisher, principal investigators included Jan MacDonald of Texas A&M University, Robert Carney of Louisiana State University, Steve Macko of the University of Virginia, and Alissa Arp and David Julian of San Francisco State University.



CHARLES FISHER

"These are not just another common worm in the mud."

— Charles Fisher
associate professor of biology
and chief scientist for the expedition

New University photo ID cards coming

By KAREN I. WAGNER
Public Information

Get ready to break out your best cheesy grin — Penn State's new photo ID cards are coming soon.

Photo appointments for all Penn State faculty, staff and students will be scheduled throughout the academic year, beginning this fall. The new cards, produced on campus via a digital imaging system, will offer a host of additional "smart card" service options including banking, stored value and long-distance calling, in addition to library and meal service and residence hall security.

"Penn State is negotiating a contract with a local financial institution," said Tom Gibson, assistant vice president for auxiliary services and chairman of the

University ID committee. Gibson said that included in the many features, card holders may eventually access their personal financial account using their ID card.

The new ID cards will use 16-digit identification numbers instead of Social Security numbers. For students, the card could put an end to lines at the Bursar's Office. University grants and loans could automatically be applied to ID card accounts. Faculty and staff could deposit their paychecks and use their ID as a debit card.

Downtown businesses will be participating along with laundry, vending and copy services on campus. Eventually, Centre Area Transportation bus fares and parking fees could be included.

The University ID committee has had wide representation

including Penn State's Office of Business Services, University Libraries, Intercollegiate Athletics, University Safety, faculty and student groups. The committee will be making a series of presentations to interested groups on campus this fall.

Throughout fall and spring semester, faculty, staff and student photos will be captured. A pilot program to test the smart card "chip" will start this fall in residence hall laundries. Faculty and staff at all Penn State locations can expect to receive their cards later in the spring, after program testing and development is completed.

Information on scheduling photo appointments will be announced through Intercom. For more information, contact Joel Weidner at (814) 863-4494.

Rural nursing centers receive \$270,000 boost

The School of Nursing in the College of Health and Human Development has received a \$270,000 gift from the Independence Foundation of Philadelphia to continue the operation of rural nursing centers in an innovative partnership with Home Nursing Agency (HNA). The foundation provided funding to establish the project in 1995.

The joint venture between Penn State and HNA has led to the opening of two nursing centers in rural Pennsylvania, one in Mount Union and one in Port Matilda. In

addition to providing direct, preventive health care and health education for rural residents, the nursing centers involve Penn State students in community and family evaluations, development and promotion of health-related programs, flu immunizations, and outreach to schools, churches, civic groups and local health and human service agencies.

"The Rural Nursing Centers are an example of Penn State know-how at work in the community and of the kind of successful partnership that benefits the citizens of our state," said Barbara Shannon, dean of the college.

The initial success of the project, as an innovative model of health care delivery, was recognized recently by Sigma Theta Tau International through its Archaon award. The new grant will support further development of the centers over the next two years, including the expansion of services and client contacts, and the development and implementation of a comprehensive outcomes evaluation plan.

Tax plan

continued from page 1

of Representatives and the Senate came up with their own versions of expansive tax bills that greatly affected higher education. In addition to providing more than \$30 billion in a variety of education-related tax incentives, the House bill also included a provision to tax for the first time faculty, staff and students who receive a tuition waiver.

The compromise tax legislation does not impose a tax on the tuition waivers. In addition, it also restores for three years a tax-code provision that allows workers to deduct from their taxable income up to \$2,500 a year in undergraduate study financed by their employers.

Negotiators for the House and Senate began meeting in July to try to reconcile the differing tax bills. By July 25, Congress had agreed to kill plans for the tax on tuition waivers. Graduate students across the nation led the charge to preserve the tuition waivers, saying the proposal would have added thousands of dollars to their tax bills and discouraged many students from pursuing graduate and professional degrees.

President Clinton is expected to some time this week sign the bill which, for the first time since

The compromise tax legislation does not impose a tax on the tuition waivers. It does, however, repeal TIAA-CREF's tax-exempt status.

1969, balances the federal budget. According to the White House Web page, this budget plan is the largest investment in higher education since the G.I. Bill in 1945 and spells out a net savings of roughly \$900 billion over 10 years.

However, the compromise plan still includes some unfavorable provisions for higher education, like the section which repeals the tax exemption status for the Teachers Insurance and Annuity Association-College Retirement Equities Fund (TIAA-CREF). As higher education's biggest pension provider, TIAA-CREF predicted that the loss of its non-profit status could cut the retirement income of educators by as much as 3 percent to 5 percent annually.

The move to phase out TIAA-CREF's tax-exempt status adds about \$300 million in federal revenue a year.

LECTURES

International Spanish theatre symposium set for Sept. 18-20

An international symposium on 20th-century Spanish theatre will be held Sept. 18-20 at The Nittany Lion Inn on the University Park campus. The symposium, sponsored by *Estrenio*, the journal of contemporary Spanish drama, will focus on the state of research in Spanish drama at the turn of the century and on new directions for investigation and criticism.

Titled "Entre Actos: Diálogos Sobre Teatro Español Entre Siglos," the meeting will bring together scholars and critics from both sides of the Atlantic to present their perspectives in these areas. Among the plenary speakers are Spanish playwright Josep Maria Benet i Jornet, Jerónimo Mozo, executive secretary of the Association of Spanish

Playwrights, Paloma Pedrero, Fermín Cabal and José María Rodríguez Méndez.

Some 60 other critics and professors from Spain, Poland, Germany, England, Canada and New Zealand will speak in concurrent sessions.

Events open to the general public include a photography exhibit by Candace Leonard of Wake Forest University in the Kern Gallery from Sept. 11 through Oct. 19 titled "Focusing: 20th-Century Spanish Playwrights." Performances in English and Spanish, of three short plays by Paloma Pedrero will be held Sept. 20 at 8 p.m. in the Pavilion Theatre.

For more information on the symposium, contact Martha Halsey, editor of *Estrenio*, at (814) 865-4252.

Blasting conference to serve as statewide forum on Nov. 13-14

The latest products and practices in the blasting industry will be reviewed at "The Eighth Pennsylvania Blasting Conference," Nov. 13-14 at the Penn State Conference Center Hotel.

The conference, serving as a statewide forum, will provide continuing education for licensed blasters, suppliers and other professionals involved in drilling, blasting and explosives. Participants will examine new products and practices for cost savings, improved fragmentation, vibration control, improved safety and regulatory compliance. This conference will feature a major exhibit of products and services available to the blasting industry.

The conference is a continuing and distance education service of the Department of Mineral Engineering and the College of Earth and Mineral Sciences, the Mid-Atlantic Chapter of the International Society of Explosives Engineers (ISEE) and the Pennsylvania Department of Environment Protection.

For program information, contact Jeffery Kohler at (814) 863-4491. For registration information, contact Chris Schultz at (814) 863-5130. For more information, call (800) 778-8632, or visit the Web at <http://www.cde.psu.edu/Mining>.

Rural zones of Near East to be topic of Aug. 29-30 Jewish Studies conference

"Dogpatch: Rubes, Hicks & Hillbillies in the Ancient Near East," is the title of a Jewish Studies Conference to be held Aug. 29-30 at The Nittany Lion Inn on the University Park campus.

The conference, which features a variety of speakers from around the country, will focus on the inhabitants of the rural zones in the ancient Near East. Among

the subjects to be discussed will be the peripheral populations at the dawn of state formation in Mesopotamia; the archaeology of the hinterland at the time of Israel's emergence in Canaan; and textual evidence for the inhabitants of rural and fringe zones in ancient Israel.

For more information, contact the Jewish Studies Program at (814) 863-8939.

Program shows students choices, introduces them to mentors

Noisy chatter fills the room as the "employees" start to meet their production goal of 50, folded, paper flying "Frisbees" in 30 minutes. Laughter and assurances that this job is "a piece of cake" reign, as the cutters start cutting paper to specifications. The folders fold components, the assemblers fold the components together, and the finishers color circles. Thirty minutes later, 36 Frisbees have been completed, only two of which meet the meticulous "client's" standard for quality.

The client announces that he will place future orders with an overseas company. The room is silent as the employees realize their factory is bankrupt and their jobs are gone.

Mentors from Eastman Kodak Co. then lead these "employees"—actually students of color currently participating in Penn State's BEST (Business, Engineering, Science and Technology) Summer Scholars Program—through the problems they encountered in the factory simulation. The mentors help the students discover and understand possible

solutions and the ramifications for their factory and employees. The exercise is designed to teach team-building skills, as well as introduce the students to industrial production line dilemmas, such as employee motivation and productivity.

Twenty-six minority students from Pennsylvania and New York are currently participating in the BEST program on campus, which ends Aug. 9. BEST is sponsored by the Eastman Kodak Co. in Rochester, N.Y.; along with The Smeal College of Business Administration; the Eberly College of Science; and the colleges of Engineering, and Earth and Mineral Sciences.

Participants in the four-week summer program attend math, communications and computer classes each weekday morning. Their afternoons are spent in a variety of educational activities like the "Flying Frisbee Factory" simulation, as well as science and engineering laboratory experiments, attending seminars to explore digital photography or college life, and touring University attractions. Evening

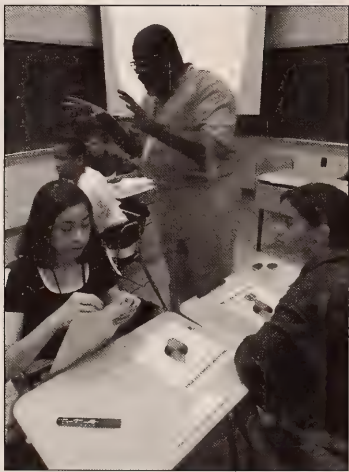
and weekend activities include recreational events.

In addition, a three-day field trip to the Kodak plant exposes the students to career choices as they shadow their Kodak mentor. According to Samuel Wilson, systems analyst for Kodak and a BEST mentor, Kodak sponsors the program to bring in new minority engineers to the company.

"We feel these employees enhance the level of ingenuity, inquisitiveness and resourcefulness in the field of engineering and in our company," he said.

Founded in 1990, the BEST program has produced positive results for both Penn State and Kodak. As of fall 1996, 38 percent of the BEST participants have enrolled at Penn State, and Kodak has hired several former BEST participants as interns and full-time employees.

"Our relationship with colleges is changing," Edwin Garcia, director, diversity initiatives for Kodak, said. "Our company is the customer who hires a college's product—its



Up for the challenge

Lilly Anna Manzur (left) from Philadelphia and Elizabeth Linsey of Rochester, N.Y., listen as Samuel Wilson, a systems analyst for Kodak, talks about working as a team during the BEST Summer Scholars Program, which ends Aug. 9.

Photo: Greg Grieco

graduates. We want to influence the outcome and make sure that the product meets our expectations."

News in Brief

Health Matters programs

The EAP and the Health Matters division of Penn State's Office of Human Resources are offering the following programs for faculty and staff. To register, contact Jan Hawbaker at 865-3085 or JQH3@psu.edu. Cost: None.

Friday, Aug. 15:

■ **The Secret of a Positive Attitude and Humor** — 8:30-9:30 a.m.; 125 Reber Building

■ **Dealing with Difficult People** — 10-11 a.m.; 125 Reber Building.

Stressed or anxious?

Most people worry, but for some, worrying is excessive, uncontrollable or overwhelming. The Stress and Anxiety Disorders Institute is conducting an ongoing research study which offers free therapy if:

1. You have experienced excessive and uncontrollable worry or anxiety for at least six months.

2. When worried or overly anxious, you also experience muscular tension, restlessness, irritability or sleep disturbance. You also may have difficulty concentrating, are easily fatigued and feel keyed up or on edge.

With Michelle Newman, assistant professor of psychology, as the principal investigator, subjects (ages 18-65) will receive free psychotherapy as well as assessments before and after treatment. A brief telephone interview will determine the suitability of this program for you. Strictest confidentiality is maintained. If interested, call (814) 863-0115 and leave a message saying you are interested in the anxiety study.

Panic attack study

You are bothered by panic attacks? The Stress and Anxiety Disorders Institute is conducting an ongoing study which offers free therapy if:

1. You have experienced at least four panic attacks in the past month with symptoms including, but not limited to, shortness of breath, rapid heartbeat, trembling and sweating.

2. These symptoms peak in less than 10 minutes.

3. At least one attack is unexpected. At least one attack is followed by one month or more of worry about having another attack, worry about implications of the attacks or behavior change as a result of the attacks.

With Michelle Newman, assistant professor of psychology, as the principal investigator, subjects (ages 18-65) included in the study will receive free psychotherapy as well as assessments before and after treatment. A brief telephone interview will determine the suitability of this program for you. Strictest confidentiality is maintained. If interested, call (814) 863-0115 and leave a message saying you are interested in the anxiety study.

Students test drive Gov. Ridge's \$127 million technology initiative

By KAREN I. WAGNER

Public Information

Click, click. Tap, tap, tap... You don't even have to ask Chris Freeman what he thinks about the Internet. His steady gaze and furrowed brow give you your answer.

But, ask this 11th-grade Germantown native what he thinks about Link-to-Learn — Gov. Tom Ridge's \$127 million initiative to link Pennsylvania schools via the Internet — and he's got plenty to say.

"Textbooks get old — this is always new. The computer has everything and there's no limit to what you can do," Freeman, who cruises Link-to-Learn's Internet site like a seasoned pro, said. Freeman, who is participating in Penn State's Upward Bound Math and Science program this summer, knows how to save images and sound bytes and how to create "hyperlinks" to new Web sites. He knows how to download "plug-ins."

Link-to-Learn's professional development project, officially opening its virtual doors to the Commonwealth's 100,000 teachers in the fall of 1997, will provide computer training and curriculum resources to help teachers effectively integrate technology into their classrooms and lesson plans.

Kyle Peck, associate professor of instructional systems at Penn State, heads up the team of developers who are busy piecing together a collection of case studies, online discussion groups and activities that will enable Pennsylvania teachers to swap best practices. They can even guide their students through virtual tours of the White House and the Grand Canyon.

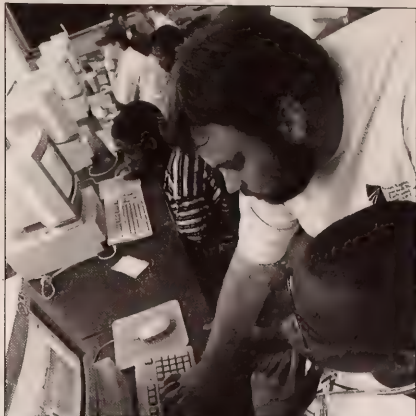
Freeman would like to see Link-to-Learn computer resources in his Germantown classroom back home. His theory: "Messing around with computers is fun. Kids would want to go to class!"

But how does he think his own teacher would react if the textbooks disappeared and she was forced to deal with this ever-changing technology?

"Oh, she'd have to be taught how to use it," he admits. "But once she got used to it, it would be easier for her."

Teachers across the Commonwealth will get plenty of help. The Link-to-Learn team has developed six tutorials and two workshop leader's guides that will be distributed to Pennsylvania's teachers via 30,000 CD-ROMs and a Web site. By using these resources, teachers can learn to use the Internet and integrate its resources in the classroom.

Teachers and students can even



Learning the ropes

Dean Dryer, a member of the Link-to-Learn advisory board and residence hall coordinator for Upward Bound Math and Science, helps 11th grader Chris Freeman navigate the Internet.

Photo: Greg Grieco

publish their work on the Internet. The Link-to-Learn professional development team will publish 325 of its own "Quick Success Lessons." Peck's goal is to model effective uses of networked computer technologies in the classroom — and to serve as a springboard for teachers, hosting online conversations that will help teachers think and grow together.

"Many teachers are beginning to understand the importance of integrating technology into the classroom, but they're not sure where to start," said Mark Toci, Penn State doctoral student and senior instructional designer for Link-to-Learn. "We are going to provide the starting point and be there to support them as they grow and mature as users of technology."

Peck, Toci and other members of the development team worked closely with a steering committee of educators throughout the Commonwealth, and they have met with state representatives on a regular basis, to keep the governor apprised of their progress. Teachers will be asked to contribute their comments on an ongoing basis.

"We really see it becoming a meeting place for teachers," Toci said. "A community where teachers can share ideas and work together to become more effective teachers."

Freeman needs no convincing. His experience with Upward Bound, part of Penn State's Academic Assistance Program for Undergraduate Education, has already given him the opportunity to design his own Web page and learn how to do library and Internet research — skills that will be an asset to him when he's looking into post-graduation job prospects. Upward Bound Math and Science encourages high school students, from schools with limited budgets and limited access to computers, to consider college-level study in math and science.

Freeman wants to go to college and study computer programming. He hopes to own his own business one day. How would he, as a future programmer, rate Gov. Ridge's Link-to-Learn project?

"I'd definitely give it an 'A,'" he said. "It's easy to use and it's good all around."

In addition to public schools, Link-to-Learn also will be accessible through Pennsylvania libraries and communities through a series of networks called the Pennsylvania Education Network (PEN). Explore some of the educational resources available, and visit the Link-to-Learn Web site at: <http://L2L2L.psu.edu>

Appointments

Smeal names faculty fellow

Anne Beatty, a member of the accounting faculty in The Smeal College of Business Administration, has been appointed the Coopers & Lybrand Faculty Fellow.

Beatty came to The Smeal College in 1995 from the University of Pennsylvania's Wharton School, where she had taught for four years. Before her academic career, she was an auditor and tax consultant for one of the major accounting firms.

She began her studies at the University of Chicago, earning a bachelor's degree in 1982 and an MBA in 1983. Her Ph.D. in accounting is from MIT's Sloan School of Management.

Pursuing research interests in the economic effects of accounting and other topics, Beatty has written articles for a variety of professional journals. She has presented her work at numerous conferences and seminars, and is a reviewer for several journals.

Beatty has served as the faculty representative to the Big 10 Doctoral Consortium and the faculty adviser for the Deloitte and Touche Case Study Program. She has been a member of the Accounting Department Advisory Committee, the Accounting Department Faculty Recruiting Committee and The Smeal College Faculty Advisory Committee.

In addition to the Coopers & Lybrand faculty fellowship, Beatty has received a Smeal College faculty research grant, SEC Financial Reporting Institute grant, Wharton Financial Institutions Center grant and University of Pennsylvania Research Foundation grant.

New department head appointed for Health Policy Administration

S. Diane Brannon, professor of health policy and administration in the College of Health and Human Development, has been appointed head of the Department of Health Policy and Administration. She had served as interim head since July 1996 replacing Frederick Eisele who returned to teaching and research in the department.

Brannon has been the professor in charge of the HPA doctoral program since 1994. She teaches undergraduate and graduate courses focusing on organizational management and long-term care administration. Her research interests include long-term care management, quality improvement in nursing homes and organizational design. She was awarded the 1994 Research Award of the Foundation of the American College of Health Care Administrators.

She is a member of the Academy of Management, the Gerontological Society of America and the American College of Health Care Administrators.

Brannon received her doctorate in human service studies from Cornell University, and an M.S.S. from Bryn Mawr College, School of Social Work and Social Research. She received her bachelor's degree in sociology from Winthrop University.

Hazleton appoints director of C&DE

Sally A. McGuire has been named director of continuing and distance education at Penn State Hazle-

ton. McGuire will be responsible for administering and overseeing Hazleton's continuing education credit, non-credit, certificate and public service programs. She will work closely with area business and civic leaders to devise strategies for addressing the educational needs of the local community.

McGuire joins Penn State Hazleton after a 16-year career with King's College, Wilkes-Barre, where she had served as director of the Lifelong Learning Center since 1984, and previously as a recruiter and academic adviser. She also gained experience as an administrative secretary in the marketing and sales division of EMC&E Corp., White Haven.

A graduate of King's with a bachelor of arts degree in government and a minor in English, McGuire also completed graduate credits at Marywood College and the University of Scranton.

Active in professional organizations, McGuire is a charter and founding member of the Luzerne County Council on Adult Higher Education, a board member of the Educational Opportunity Center, the moderator of Alpha Sigma Lambda, King's College Alpha Omega Chapter, honor society for students in continuing higher education; and also a member of the Northeastern Pennsylvania Industrial Resource Center; and many other professional groups.

Arts and Architecture adds director of development

Robert L. Mothersbaugh has been appointed director of development for the College of Arts and Architecture.

Mothersbaugh will direct fund-raising and advancement programs for the college's academic departments and the University Arts Services, which includes the Center for Performing Arts and the Palmer Museum of Art.

A 1987 Penn State alumnus and former assistant director of annual giving at Penn State, Mothersbaugh rejoins the University after seven years working in private liberal arts colleges.

He was formerly campaign director at Gettysburg College, which completed an \$83 million capital campaign in 1993. He became chief advancement officer at Lycoming College. While there, he managed a \$25 million capital campaign for endowment and capital improvements to the Williamsport institution.

Mothersbaugh has spent more than a decade in fund raising for higher education and is professionally certified by the National Society of Fund-Raising Executives. He is also an active member of the Council for the Advancement and Support of Education.

Director of outreach comes on board at Shenango campus

Jane Muldoon has been appointed director of outreach and academic program coordination at the Shenango campus.

As the director of outreach, Muldoon will be responsible for all non-credit programs, as well as



JANE MULDOON

off-campus credit and certificate programs. In addition, she will assist the academic affairs director in the implementation of the new Weekend College, program accreditation, institutional assessment and research.

Previous to her new position, Muldoon was the acting director of continuing education at Penn State Shenango for two years and a coordinator in academic affairs for the last several years. Muldoon has been with Penn State Shenango since 1985.

Auditing authority gains professorship in Smeal College

Jane Mutchler, a nationally recognized authority in auditing, has been appointed to the Arthur Andersen Professorship in The Smeal College of Business Administration.

A member of The Smeal College faculty since 1991, Mutchler previously taught at the University of Arizona and The Ohio State University. She holds B.A. and M.Acc. degrees from the University of South Florida and a Ph.D. from the University of Illinois.

Mutchler, who held the Coopers & Lybrand faculty fellowship at Penn State for three years, is the Ph.D. adviser in The Smeal College's Department of Accounting and a member of the Departmental Advisory Committee and the 150-hour Curriculum Committee. She is chair of the Research Colloquium, the Special Task Force to Review the Ph.D. Program and the Recruiting Committee. She is also a member of Penn State's University Fellowship and Awards Committee.

Mutchler is a member of the editorial boards of *Auditing: A Journal of Practice and Theory*, *Contemporary Auditing Research* and *Accounting Horizons*. She is also associate editor of *Accounting Horizons*.

Mutchler has been active in the American Accounting Association (AAA) for more than 10 years, serving in numerous capacities in the auditing section, most recently as president. In addition, she was involved in the organization's management accounting section, the 1990 Corporate Accounting Policy Seminar Committee, and the New Faculty Consortium. Last year, she was chair of the AAA's Doctoral Fellowship Committee.

She has been a member of the Board of Research Advisers of the Institute of Internal Auditors for the past four years and also is a member of the American Institute of Certified Public Accountants.



JANE MUTCHLER



ROBERT L. MUTHERSBAUGH

Appointments

Assistant director of development for Libraries comes on board

Cynthia Asmus has been named the assistant director of development for the University Libraries. In this new position, she will work to identify potential donors and seek support for the pressing needs of the Libraries in the upcoming Capital Campaign.

Asmus joins Penn State from the State College YMCA, where she served for eight years as executive director overseeing a volunteer board of directors, full- and part-time staff members and more than 500 volunteers. Before this, she worked as a program director at Shaver's Creek Environmental Center.

Asmus received a bachelor of science degree in physical education/health from the University of Oregon and a master of science degree in environmental education from Indiana University in Bloomington.

Beaver appoints acting CEO and acting director of academic affairs

Gary B. Keefe, director of academic affairs at Penn State Beaver, has been named acting Beaver campus executive officer, effective July 1. Keefe replaces Dennis M. Travis, who resigned effective July 1. Travis served as the Beaver campus CEO since July 1995. A national search for the CEO will begin this fall.

In addition, Donna J. Kuga, associate professor of kinesiology and athletic director, has been named acting director of academic affairs at the Beaver campus.

Before his arrival at the Beaver campus one year ago, Keefe held the position of interim associate



CYNTHIA ASMUS



GARY B. KEEFE

dean of the College of Engineering and Technology at the University of Nebraska-Lincoln. He also served as vice chairman of the Department of Civil Engineering and was an associate professor in civil engineering. Keefe also has taught at West Virginia University. He holds a Ph.D. from West Virginia University, where his major was environmental engineering and minors were chemistry and chemical engineering. He is a registered professional engineer in Nebraska and was awarded graduate faculty fellow status at the University of Nebraska in 1991.

Keefe is the recipient of the Glen L. Martin Best Paper Award, Civil Engineering Division, American Society for Engineering Education; the Charles B. Dudley Publication Award, ASTM; a West Virginia University Foundation Fellowship Grant for Outstanding Students; and the Phi Kappa Phi Honorary Society Award. He is a member of the Water Environmental Foundation, the American Society for Engineering Education, and the American Society of Civil Engineers. In addition, he has served on numerous committees and his research topics over the years have focused on water and waste water issues and industrial pollution.

Kuga holds a bachelor's degree in health and physical education from Penn State, a master's degree in administration in physical education and athletics from Slippery Rock University, and a doctorate in administration and policy studies in higher education from the University of Pittsburgh. She has been a member of the Beaver campus faculty since 1981 and was appointed director of athletics, intramurals and recreational sports in 1996. Kuga has authored and co-authored more than 20 articles which have appeared in a variety of professional journals and has presented papers at numerous technical and professional meetings throughout the country.

She has served as editor of the *Pennsylvania Journal of Health, Physical Education, Recreation and Dance* and as an editorial board member of the *Journal of the National Intramural-Recreational Sport Association*. In 1995 she received the Outstanding Academic Adviser Award from the Beaver Campus Student Government Association and in 1993 she received the Beaver Cam-



DONNA J. KUGA

pus Advisory Board Research Award, in addition to other awards. She is a member of the American Alliance for Health, Physical Education, Recreation and Dance; the Pennsylvania Association for Health, Physical Education, Recreation and Dance; the National Intramural-Recreational Sports Association; and the North American Society for Sports Management. She also serves as a member of the Beaver Campus Diversity Strategic Planning Committee and the Campus Executive Officer's Council.

In addition to her teaching and scholarly pursuits, Kuga has coached several women's athletic teams.

College of Engineering finds replacement for director

Anita Todd has been appointed director of the Engineering Cooperative Education Program in the College of Engineering, following the resignation of Garth Molschenbacher. She had served as the program's associate director since October 1995.

As director, Todd supervises the cooperative education personnel who work to recruit and train students and to develop relationships with potential employers. She also develops policies and procedures for the program. In her new role, Todd plans to cultivate a system for the co-op program to assist engineering alumni in seeking post-graduate placements.

Todd made many significant contributions to the co-op program while serving as associate director. In addition to restarting Penn State's chapter of Kappa



ANITA TODD

Theta Epsilon — the engineering co-op honor society, she initiated a system of including Commonwealth campus students in the co-op program at University Park.

A 1989 graduate of Penn State with a B.S. in mechanical engineering, Todd was a member of the first class able to use the College of Engineering's co-op program. Through the co-op, Todd was placed as an intern at Walt Disney World in Florida, and Cummins Engine Co. Inc., in New York. She was employed for several years by Cummins and served on the co-op's advisory board before returning to Penn State as assistant director. Todd is currently pursuing an MBA.

Partings

Staff assistant opts for travel after 33 years

Joan Brooks, staff assistant to the assistant dean of undergraduate and summer programs, in the College of Education, has retired after 33 years of service at the University.

For 22 years, Brooks helped coordinate curricular affairs for the college's undergraduate programs, and organize commencements, oversee budgets and undergraduate summer programs.

Brooks started her career with the University in the College of Engineering, working as a receptionist in the dean's office, and then in the mechanical and electrical engineering departments.

She later worked as a staff assistant in the Eberly College of Science for the associate dean of research, and in the Office of Environmental Affairs before joining the College of Education.

Brook's husband, Daniel, also recently retired from his position as assistant manager of the Department of Audio-Visual Services, after 34 years of service at the University. With their newly purchased motor home, the Brooks plan to spend time traveling. This year they will visit Alaska, Florida and Arizona.

Longstanding employees retire

Paul B. Agate, assistant professor of exercise and sports science, Fayette campus, from Sept. 1, 1966, to June 30.

Yildiz H. Akin, senior statistical analyst, College of Agricultural Sciences, from Feb. 11, 1974, to June 30.

Priscilla H. Allison, assistant professor of speech, Wilkes Barre campus, from Sept. 1, 1965, to June 30.

Carol M. Ames, staff assistant V, College of Earth and Mineral Sciences, from Jan. 21, 1961, to July 1.

Frank G. Bamer Jr., advanced engineering aide, Applied Research Laboratory, from March 1, 1984, to June 28.

Jack H. Barton, programs specialist in Undergraduate Studies, Schuylkill campus, from Jan. 1, 1969, to June 30.

ARTS & ENTERTAINMENT

AT PENN STATE

Community Arts Center events continue

The Community Arts Center in Williamsport, part of Penn College, kicked off its 1997-1998 Performing Artist Series on Aug. 4. The Arts Center is celebrating its fifth full year of the arts with a 15-event season titled "New Traditions" at the 2,165-seat, fully restored venue.

Events include: "The Legends of New Orleans;" Tracy Byrd; Bill Cosby; "42nd Street;" Kathy Troccoli; Kathy Mattea; Schoolhouse Rock Live!; Western Opera Theatre performing "Carmen;" Phillips, Craig & Dean; A Judy Collins Christmas; "West Side Story;" "Damn Yankees;" Paul Anka; The Flying Karamazov Brothers and "How To Succeed in Business Without Really Trying."

For tickets or additional information, please call the Community Arts Center Box Office at (814) 326-2424 or (800) 432-9382.

"Man of La Mancha"

Man of La Mancha, a musical that combines the comic eccentricities of the fictional figure Don Quixote with a moving account of the adversities that beset his creator, Miguel de Cervantes, will run at Berks Festival Theatre in Reading through Aug. 10.

The production, a program of Penn State Berks-Lehigh Valley College, is the second for the new Berks Festival Theatre's premiere season and features professional actors, directors and designers on the stage in the Perkins Student Center.

Performances are scheduled for Aug. 7-10. Weeknight and Saturday performances are held at 8 p.m., Sunday performances are scheduled for 2 p.m. Ticket prices range from \$10 for students with valid identification to \$16 for adult weekend night performances. Call the 24-hour ticket hotline at (800) 450-5502 for tickets and information. The Perkins Student Center is located on Penn State Berks campus.

Student art auction

An exhibition and public auction of student art work is taking place in the newly opened Soho Underground gallery beneath Manhattan Bagel, 232 West College Ave. in downtown State College. All proceeds will benefit the Centre County Woman's Resource Center.

The donated work was produced by students enrolled in the ARCH 121 and ARCH 297D visual communications courses taught by Richard Alden, assistant professor of architecture. All bidding ends Aug. 28. For more information, call Alden at (814) 865-3682.

"State Fair" tickets on sale now

The Center for the Performing Arts has added three performances of "State Fair," starring John Davidson, to its fall line-up. The family musical will be performed at 8 p.m. Sept. 4 and 5, and at 2 p.m. Sept. 7 in Eisenhower Auditorium on the University Park campus.

"State Fair," adapted from a 1942 Rodgers and Hammerstein film musical, is a happy, heartwarming musical about a family's adventures at the Iowa State Fair. The Penn State performances will launch the national tour of the production.

Davidson, best known as a host of talk and game shows, will return to the role of Abel Frake. He originated the role in the musical's 1996 Broadway production.

Tickets are on sale now. Special children's prices are available. For ticket information, phone (814) 863-0255.

UNIVERSITY PARK CALENDAR

SPECIAL EVENTS

Tuesday, August 12
Ag Progress Days, Larson Agricultural Research Center, through Aug. 14.
Friday, August 15
Brooks & Dunn and Reba McEntire, The Bryce Jordan Center.

CONFERENCES

Sunday, August 10
Orion, through Aug. 15.
Monday, August 11
AFSCME 13, The Nittany Lion Inn, through Aug. 14.
American Bearing Manufacturers — Introductory course, Penn State Conference Center Hotel, through Aug. 15.
Rotary Wing Technology, The Nittany Lion Inn, through Aug. 15.

Thursday, August 14
Innovate or Die! — education innovations in engineering, science and applied fields, Penn State Conference Center Hotel, through Aug. 15.
Sunday, August 17
Orion — Fall II, through Aug. 22.

EXHIBITS

Palmer Museum of Art
"Making History: Historical Narratives in Pennsylvania Prints," through Aug. 31.
School of Visual Arts Faculty Exhibition, through Sept. 14.
"Our Town: A Selection of Town Views from the Pennsylvania Prints," through Sept. 28.

For a full listing of University Park activities, including sporting events, go to the Web at URL <http://cac.psu.edu/calendar/>

Aug. 8 - Aug. 21

Obituaries

Everett Alderman, associate professor of psychology, College of the Liberal Arts, from June 1, 1947, until his retirement Jan. 1, 1970; died May 7 at the age of 94.

Oscar W. Briggs, Lions Den attendant, Housing and Food Services, from Sept. 19, 1957, until his retirement Jan. 10, 1970; died May 19. He was 92.

Harold E. Byers, head of utilities division, Maintenance and Utilities, from Feb. 1, 1929, until his retirement April 1, 1968; died June 2 at the age of 89.

John H. Ferguson, professor of political science, College of the Liberal Arts, from Sept. 1, 1934, until his retirement July 1, 1967; died May 12. He was 89.

Anna E. Hostler, janitorial worker, University Health Services, from Sept. 9, 1968, until her retirement June 30, 1983; died May 21 at the age of 76.



Yee-haw

John Davidson recreates his original Broadway role of Abel Frake in Rodgers and Hammerstein's "State Fair," playing Sept. 4, 5 and 7 in Eisenhower Auditorium on the University Park campus as part of the Center for Performing Arts series. For more information, call (814) 863-0255.

Faculty/Staff Alerts

President's radio call-in program on Aug. 21

Higher education's efforts to prepare graduates for the global economy and community of the 21st century are the subject of the next edition of "To the Best of My Knowledge," President **Graham B. Spanier's** monthly call-in program on public radio station WPSU-FM (90.1, 91.5 & 106.7), airing at 7 p.m. Thursday, Aug. 21.

Joining President Spanier for a discussion of how best to infuse an international perspective into the academic programs of the nation's colleges and universities will be **Beverly Lindsay**, Penn State's first dean of the University Office of International Programs.

Listeners with opinions or questions about the internationalization of higher education are invited to call 1-800-543-8242 during the one-hour program. Internet users worldwide will be able to link to sound and pictures from the program at www.psu.edu/uc/tech/tech.html; and they will be able to submit questions and comments via e-mail to response@psu.edu.

Hosted by Patty Satalia, "To the Best of My Knowledge" is a series designed to explore topics of concern to higher education and to allow listeners a chance to communicate directly with Penn State's president.

Award nominations sought

The Penn State Alumni Association is seeking nominations for the 1998 Philip Philip Mitchell Alumni Service Award, which is given each year to an alumnus, alumna or friend of the University who has contributed generously to the enhancement, growth, development and improvement of Penn State.

The award consists of certificate, a plaque prominently displayed in the Alumni Lounge with the name of each year's recipient and a cash gift to the University for a purpose designated by the recipient. In 1980, the Board of Trustees established the award to honor "an outstanding alumnus, alumna or friend who has made a significant contribution to the University."

No current trustees or distinguished alumni of the University are eligible. Nominations may be sent to **Rayna Wendell**, Penn State Alumni Association, University House, University Park, Pa. 16802-1439. The deadline for nominations is Nov. 28. For more information or a copy of the Philip Philip Mitchell Award nomination form, contact Wendell at (814) 865-6517.

Libraries Intercession hours

University Libraries on the University Park campus will follow the following

schedule during Intercession Aug. 10-26:

■ **Pattee Library**, Architecture Library, Earth and Mineral Sciences Library, Education Library, Engineering Library, Mathematics Library and Physical Sciences Library:

Sunday, Aug. 10	Closed
Aug. 11-15	8 a.m. to 5 p.m.
Aug. 16-17	1 to 5 p.m.
Aug. 18-22	8 a.m. to 5 p.m.
Aug. 23-24	1 to 5 p.m.
Aug. 25-26	8 a.m. to 10 p.m.

*Historical Collections and Labor Archives, Interlibrary Loan, University Archives / Penn State Room, Pattee Copy Center and the Rare Books Room will keep regular semester hours during this time.

■ Hours for the Music Listening Room:

Aug. 10	Closed
Aug. 11-26	1 to 5 p.m.

■ Pollock Library

Sunday, Aug. 10	Closed
Aug. 11-14	8 a.m.-midnight
Aug. 15-16	8 a.m.-midnight
Aug. 17-21	8 a.m.-midnight
Aug. 22-23	8 a.m. to 10 p.m.
Aug. 24-26	8 a.m.-midnight

Fall semester hours will begin at all libraries on Wednesday, Aug. 27. For more information on hours of library service, call (814) 865-3063, type HELP HOURS when using the Library Information Access System (LIAS), or visit the Libraries' home page at <http://www.libraries.psu.edu>.

Ag Progress Days

The annual Ag Progress Days, featuring more exhibitors and the latest in agricultural advances, is again set to make its appearance at the Russell E. Larson Agricultural Research Center near the University Park campus on Aug. 12 through 14. There will be free CATIA bus service all three days. The shuttle departs from College Avenue and Allen Street (near the Corner Room restaurant) at 9:30 and 11:30 a.m. Aug. 12-14. On Aug. 13, when Ag Progress Days remains open until 8 p.m., there will be an additional departure at 2:30 p.m. Departure times for the return trip are at noon, 3 and 4 p.m. Aug. 12-14, with a 7 p.m. shuttle on Aug. 13.

Tax reminder

Just a reminder, for those employees who used the University tuition discount benefit for summer courses, the University is applying the federal withholding tax in the July, August

and September monthly payrolls.

For those who are paid biweekly, this tax has been applied in the Aug. 1 payroll, and will be applied in the Aug. 29 and Sept. 26 pays. Remember, that this tax only applies to those employees and their spouses who are considered to be graduate-level or higher.

Exhibit available

A traveling exhibit titled "Lesbian and Gay Issues at Penn State, 1971-1996: 25 Years of Progress" is available from the Commission on Lesbian, Gay and Bisexual Equity and University Archives. This exhibit is based on the successful LGB History Month event that took place at University Park from October 1996 through January 1997 where several thousand students, faculty, staff and visitors viewed the history of lesbian, gay and bisexual members of the Penn State community.

Sponsored by the Office of the Vice Provost for Educational Equity, the exhibit tells the story of how events during the last 25 years influenced the University, changing it from a homophobic climate into one that today is supportive of its gay, lesbian and bisexual faculty, staff and students.

The exhibit also includes an information packet containing brochures and resources. The cost of the exhibit is approximately \$40. For more information on the exhibit or for schedule availability, please contact Tracy Leitzel at (814) 863-7696.

Nittany Lions' coverage

Penn State's 1997 regular season football finale at Michigan State will be televised by ABC Sports. The Nittany Lions' Nov. 29 game in East Lansing will be regionally televised by ABC. Kickoff is set for 1 p.m. EST from Spartan Stadium.

The game with the Spartans is Penn State's third announced television appearance for the upcoming season. The Sept. 6 season opener with Pittsburgh will be a 3:30 p.m. ABC-TV regional telecast from Beaver Stadium and the Lions' Sept. 20 game at Louisville will be nationally televised by CBS at noon.

Since joining the Big Ten Conference in 1993, Penn State has won all four meetings with Michigan State, but the Spartans lead the series, 8-5-1. Michigan State was 6-6 last season under Coach Nick Saban, falling to Stanford in the Sun Bowl. Entering his 32nd season as head coach, **Joe Paterno** returns 42 letter winners and 13 starters from last year's 11-2 squad, which won its last five games.

University Web site for international funding

"Faculty Funding and Networking Opportunities" is an internationally focused Internet site which can be

accessed through Penn State's Office of International Programs Web site. Individuals interested in international education and global issues are encouraged to take advantage of this regularly updated, internationally focused Penn State site.

On a weekly basis, International Partnerships and Academic Linkages (IPAL) monitors national electronic information bulletin boards. The address is <http://bluc.uc.psu.edu/psu/ipalcp/IBhome.html>.

For more information contact **Christina Arnoldi** at (814) 865-0414, e-mail: cea40psu.edu, or visit the IPAL home page at <http://bluc.uc.psu.edu/psu/ipalcp/home.html>.

Electronic prescription refills now available

University Health Services Pharmacy has a new service for customers who are either students or faculty/staff/retirees enrolled in the Penn State Maintenance Drug Prescription Program.

If you have a prescription on file at the pharmacy, and you'd like to order a refill for that prescription, orders can be submitted electronically through the University Health Services Web site at <http://www.psu.edu/UHS/pharmacy.html>.

Pick-up orders will be processed within 48 hours. For mail out services, please allow seven to 10 days.

Leadership workshop

Pennsylvania teachers and administrators are invited to nominate young women in grades nine through 12 to participate in "Aim High: A Leadership Workshop for High School Girls" to be held at Penn State Feb. 13-14, 1998.

Aim High, a continuing and distance education service of Penn State, has corporate sponsorship for all program costs, meals and lodging, so there is no charge to program participants. However, participants are responsible for transportation to and from State College.

Aim High is designed to honor selected young women with leadership potential, giving them an opportunity to explore ways in which they might develop and use that potential to further their own careers and to make meaningful contributions to society. Motivational speakers, small group activities and informal interaction with women leaders enable participants to reflect on some of the challenges facing women leaders.

To receive a nomination packet (to be distributed in September), school officials should call 1-800-PSU-TODAY or e-mail: Conferecinfo@cdc.psu.edu

Promotions

Staff

Barry G. Phelps, systems engineer I in Computer and Information Systems-Administrative Systems.

Clifford E. Plank, advanced engineering aide in Applied Research Laboratory.

Todd W. Plummer, network coordinator in Computer and Information Systems-Telecommunications.

Chester M. Poorman, manager, jobs management in Business Services.

Joseph P. Portelli, senior design specialist in College of Engineering.

Jeanette G. Rieck, staff assistant VII at Penn State Delaware County.

James G. Reigh, senior communications engineer in Computer and Information Systems-Telecommunications.

Constance M. Rogus, staff assistant VII in Continuing and Distance Education.

Janet M. Rosenbaum, area representative II at Penn State Wilkes-Barre.

Neil B. Russler, engineering aide in Applied Research Laboratory.

Patricia A. Sames, staff assistant VI in Research and Graduate School.

Molly L. Sampsel, staff assistant V in Continuing and Distance Education.

Mary Jo Schillings, staff assistant V in Continuing and Distance Education.

Judith L. Shawley, staff assistant VI in College of the Liberal Arts.

Carey L. Shuey, staff assistant V in Eberly College of Science.

Denise L. Shuey, staff assistant VII in College of Agricultural Sciences.

Lara C. Simmon, communications support coordinator in Computer and Information Systems-Telecommunications.

Robert A. Smith, senior engineering aide in Applied Research Laboratory.

Amy I. Spangler, staff assistant VI in

College of Arts and Architecture.

Amy I. Spangler, staff assistant VI in Continuing and Distance Education.

Vickie A. Stephens, staff assistant VI in Continuing and Distance Education.

James C. Stine, advanced engineering aide in Applied Research Laboratory.

Stephanie R. Stine, staff assistant V in Eberly College of Science.

Anne A. Stokes, staff assistant VII in College of Health and Human Development.

Ronald A. Strouse, senior network coordinator in Computer and Information Systems-Telecommunications.

Tina M. Supon, staff assistant V in Continuing and Distance Education.

Brenda A. Swires, staff assistant VII in Continuing and Distance Education.

Judy A. Tice, communication systems associate in Computer and Information Systems-Telecommunications.

Jennifer M. Treaster, staff assistant V in Continuing and Distance Education.

Technical Service

Charles M. Behrer, lead plumber-fitter in Office of Physical Plant.

John C. Bickley, snack bar attendant in Housing and Food Services at Penn State Hazleton.

Bradley L. Bressler, janitorial worker in Office of Physical Plant.

Mildred L. Bumbaugh, snack bar attendant in Housing and Food Services at Penn State Mont Alto.

James T. Campbell, maintenance mechanic, utilities piping in Office of Physical Plant.

Mary A. Enama, snack bar attendant in Housing and Food Services at Penn State Hazleton.

Beverly G. Forshey, snack bar work-

er B in Housing and Food Services at Penn State Altoona.

Barbara L. Goodwin, snack bar worker B in Housing and Food Services at Penn State Berks.

Patricia A. Graham, snack bar worker B in Housing and Food Services at Penn State Altoona.

Michael G. Jessup, electronic technician A in University Libraries.

Katherine L. Kustaborder, janitorial worker in Office of Physical Plant.

Ruth A. Maguire, snack bar worker B in Housing and Food Services at Penn State Berks.

Jeffrey C. Marshall, blacksmith and farm machinery mechanic in College of Agricultural Sciences.

Linda L. Null, snack bar attendant in Housing and Food Services at Penn State Mont Alto.

Slawomir M. Okoniewski, food preparer B in Housing and Food Services.

Catherine Payne, snack bar worker B in Housing and Food Services at Penn State Berks.

Karen J. Pcolinsky, snack bar attendant in Housing and Food Services at Penn State Hazleton.

Maureen R. Schubert, snack bar worker B in Housing and Food Services at Penn State Berks.

Rosa E. Shoop, snack bar attendant in Housing and Food Services at Penn State Mont Alto.

Cheryl A. Shuey, janitorial worker in Office of Physical Plant.

Cathy L. Skelley, snack bar worker B in Housing and Food Services at Penn State Altoona.

Cathy D. Staggs, snack bar attendant in Housing and Food Services at Penn State Mont Alto.

Kent A. Weaver, maintenance worker-utility in Office of Physical Plant.

Phyllis L. Weber, snack bar worker B in Housing and Food Services at Penn State Altoona.

Brian K. Woodland, maintenance worker-utility in Office of Physical Plant.

Award

McKeesport staffer named winner of PSEOP award

Marlene B. Hetrick, staff assistant VIII/officer manager for academic affairs at Penn State McKeesport, was named Outstanding Office Professional by the Penn State Educational Office Professionals organization. The award recognizes an office employee who has provided exceptional meritorious service on behalf of Penn State. Criteria for selecting the recipient include: professionalism, leadership skills, teamwork, resourcefulness, problem-solving skills, quality of work, continuous quality improvement and positive attitude.

Hetrick joined Penn State McKeesport in 1987 as secretary to the director of University Relations. She has served in her current position since 1991. She graduated summa cum laude in 1991 from Robert Morris College with a baccalaureate degree in business administration and received an associate degree in business/secretarial science summa cum laude from Robert Morris College in 1968.

She was and was granted an Equal Opportunity Planning Commission grant titled "Breaking the Glass Ceiling," a mentoring program for Penn State's southwest region campuses during the 1997-98 academic year. The purpose of the grant is to identify and train women for effective leadership positions. Hetrick is heading a steering committee to form guidelines for the program.

From 1994-95 she served as president of the McKeesport Campus Staff Association and as vice president from 1995-96. Since 1987 she has served in a number of volunteer capacities with the McKeesport Campus Alumni Society, as a member of the Campus Commission for Women since 1993, and on numerous committees. She also has a long history of volunteerism and membership in community organizations.

25-year Awards



DAVID GESELOWITZ



JOHN A. GILDERSLEEVE



RICHARD L. MARTIN



STEPHEN D. SHIREMAN



KAREN SNARE

Observing 25 years of service at the University are, from left, David Geselowitz, distinguished alumni professor of bioengineering and professor of medicine; John A. Gildersleeve, manager, Respiratory Care and Ancillary Services; Richard L. Martin, supervisor, Respiratory Care; and Stephen D. Shireman, systems coordinator, Building Maintenance, all at the Penn State Geisinger Health System's Hershey Medical Center; and Karen Snare, staff assistant in the Science, Technology and Society Program, in the College of Engineering.



Back from Mars?

This is no space suit. On a recent visit to the Hazmat team headquarters, behind Salvage and Surplus on the University Park campus, a young Sam Dechdel tried on a full-sized training encapsulation suit. The training suits are used for practice drills, while the actual suits—which cost about \$1,000 each—are used in real emergencies. Helping Sam with the suit is Penn State Officer Dave Schultz. The Hazmat crew undertakes occasional educational programming efforts.

Photo: Greg Grieco

Researchers design CD-ROM as tool to educate people about breast cancer

When deadly diseases run in your family, education can be the best prescription for good health. Researchers at Penn State Geisinger Health System, Hershey Medical Center, and the University of Wisconsin in Madison, have designed a new interactive CD-ROM available to educate individuals about genetic testing for the leading cause of cancer death for women between the ages of 35 and 54—breast cancer.

Breast cancer, which affects one out of every eight women, may result from contributing factors including gene abnormalities. Studies show that only 5 percent to 10 percent of women with "breast cancer genes," but those women with a gene abnormality have a 60 percent to 90 percent lifetime risk of developing breast cancer.

Dr. Michael Green, assistant profes-

sor of humanities and internal medicine, has been designing the computer program which will help patients and their families learn more about genetic testing for breast cancer. The CD-ROM will supplement information a patient gets from a doctor or genetic counselor and may even replace or reduce the time needed with a health professional.

Green thinks interactive CD-ROMs will become more popular as a tool for patient education in the future because of their convenience for the patient, privacy, effectiveness, interactivity and potential for saving time and money. He envisions having the CD-ROM available to patients at doctors' offices and, eventually with technological advancements, accessible on the Internet. The project is being funded by a grant from the National Cancer Institute (NCI).

BOOK SHELF

How do Americans use their time? The answers can be found in the new book *Time For Life: The Surprising Ways Americans Use Their Time* by John P. Robinson, professor of sociology and director of the Americans' Use of Time Project at the University of Maryland and Geoffrey Godbey, professor of leisure studies at Penn State.

Though they may not believe it, Americans have more free time than they did 30 years ago. Research done by the authors shows that Americans have almost five hours more free time per week than in the 1960s. "Most of the time they have gained is used for television viewing," Godbey said.

In their book, Robinson and Godbey go beyond describing their controversial findings to confront the numerous time paradoxes facing Americans, such as feeling more rushed and stressed when we actually have more free time; having free time in periods when it is least useful; and investing time in activities that bring us minimal enjoyment or fulfillment.

Their source of time-use information, the Americans' Use of Time Project, is the only such detailed historical data archive in the United States. Every 10 years the project has been asking thousands of Americans to report their daily activities on an hour-by-hour basis in time diaries.

Sridhar Komarneni, professor of clay mineralogy in the Department of Agronomy and Materials Research Laboratory, **John C. Parker** of Nanophase Technologies Corp. and **Heinrich J. Wollenberger** of the Hahn-Meitner Institute in Germany, are co-editors of *Nanophase and Nanocomposite Materials II*, published in 1997 by the Materials Research Society, Pittsburgh.

The book, which compiles papers from 19 countries, is the result of a symposium held at the Materials Research Society 1996 fall meeting in Boston. Paper topics include synthesis, processing, characterization and property evaluation of nanophase oxides and metals, alloys and non-oxides; simulation studies of nanophases; magnetic and metal nanocomposites; oxide, non-oxide and oxide-metal nanocomposites; organic-inorganic and sol-gel nanocomposites; and nanocomposites of layered and mesoporous materials.

Far more than harmless entertainment, TV talk shows are illustrative of commercial television's reliance on ratings and revenues—regardless of the consequences, a new book by two Penn State professors argues.

The result: a troubled America distracted and confused by years of deceptive, sensational television programming that largely focuses on the worst of our society. Professors **Vicki Abt** and **Leonard Mustazza** say in *Coming After Oprah: Cultural Fallout in the Age of the TV Talk Show* (1997, Popular Press) that talk shows are a daily assault on our culture and our consciousness.

Abt, a professor of sociology and American studies at Penn State Abington, became nationally known for her public criticisms of television talk shows. In 1994, she published a sharply critical analysis of the genre, arguing that talk shows' focus on the bizarre and the dysfunctional serves only to undermine Americans' civil conduct. The study garnered national media attention, culminating with Abt's appearance on *The Oprah Show* that year. Since then, Oprah has joined the fray of talk show critics and overhauled her show, focusing on self-help themes and celebrity interviews.

More than a commentary on the aesthetics of the talk show genre, *Coming After Oprah* encourages the public to become more "screen smart" and makes strong recommendations to the government, including beefing up a weak and ineffective Federal Communications Commission. The book uncovers behind-the-scenes economic games and their implications, revealing a complex web of commercial and political interests that influence talk shows' production.

New at Penn State

Weekend College

In an effort to meet the needs of non-traditional students, Penn State Sherman will begin offering a "Weekend College" in the fall, where students can obtain a two-year associate

degree in letters, arts and sciences or earn credits. Classes will be offered on both Saturdays and Sundays. Additional degree programs may be added in the future.

For more information, call (412) 983-2800.



CQI in child care

Recent CQI efforts in the work/life unit of the Office of Human Resources have led to improvements in both the child care enrollment process and the child care waiting list process. Last fall, the unit introduced a "transmittal form" to help ease the transition for the children, their parents and the staff of the University's child care centers by ensuring that accurate information is communicated in a timely manner. The unit has also just finished constructing a database to more easily manage the transition from the waiting list to enrollment. According to Linda Pierce, coordinator of work/life programs and sponsor of the teams, future initiatives include improvements in the billing and payment procedures.

HR policies online

Also in the Office of Human Resources, the Human Resources Policies Team recently completed transferring all human resources policies and guidelines to the OHR Web site (<http://www.ohr.psu.edu/policy/default.htm>). Although the information is available via Gopher, the Web allows for a greater number of people to access the information and, by using hypertext links, allows for easy referencing of related policies.

Improving the parking permit process

A CQI Team has been charged in the Office of Business Services to improve the process for distributing parking permits. Betty Roberts, assistant vice president for Business Services, charged the team in response to feedback received by the Parking Office. Over the next six months, the Parking Operations Permit Process Improvement Team will be examining the permit registration and distribution process and will be recommending improvements to be implemented by Spring 1999.

A complete listing of all CQI Teams and other information on CQI at Penn State is available by contacting the Center for Quality & Planning at (814) 863-8721 or via its Web site at <http://www.psu.edu/president/cqi>.

Search is on for associate dean in engineering

A search is being conducted to replace Michael M. Reichman, associate dean for graduate studies and research in the College of Engineering, who has accepted a position as associate dean of research and faculty development in engineering at the University of South Carolina and director of engineering research with the South Carolina Research Authority.

The associate dean reports to the dean and is expected to provide leadership in the college on matters pertaining to graduate instruction and research, including major policy, planning and development responsibilities. Other activities involve industrial relations and outreach. The position is available on or about Sept. 15.

Nominations and applications for this position are invited from interested people. The candidate should hold a doctoral degree in an engineering discipline and have expe-

rience in teaching and advising at the graduate level and in research. Candidates should have a strong commitment to providing a high quality research and graduate engineering program, a record of college and university service, and strong communications, interpersonal and management skills. Members of underrepresented groups are encouraged to apply.

A search advisory committee will begin to review nominations and applications by Sept. 8. Applications and nominations will be accepted and reviewed until the position is filled. The committee will identify qualified candidates and present evaluations and recommendations to the dean, David N. Wormley. Nominations and applications should be submitted to the chair, Associate Dean Search Advisory Committee, 101 Hammond Building, University Park, Pa. 16802.

Department head needed in Ag Sciences

Applications and nominations are being solicited for the position of professor and head of the Department of Agricultural Economics and Rural Sociology in the College of Agricultural Sciences. Candidates should have an earned doctoral degree in agricultural economics, rural sociology or a related field and a record of scholarly and academic achievement justifying tenure.

The department head provides leadership for academic programs of research, cooperative extension and teaching. The head also exercises administrative responsibility for academic affairs, department personnel, financial matters and physical facilities. A description of the department may be found at <http://www.aers.psu.edu>. A full position announcement is available at <http://www.aers.psu.edu/dnrcw/facjobs.html>.

Milton C. Hallberg has been serving as department head. The previous department head, Theodore R. Alter, had been serving as interim dean of the College of Agricultural Sciences and began a new appointment July 1 as associate vice president for outreach, director of Cooperative Extension and associate dean of the College of Agricultural Sciences.

Applications will be accepted until Nov. 1, or until a suitable candidate is found. Please direct nominations and applications to Robert Herrmann, chair, Advisory Search Committee, The Pennsylvania State University, 207R Armsby Building, University Park, Pa. 16802; telephone (814) 863-8631; fax (814) 865-5746; or e-mail roh2@psu.edu. Penn State is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

Visiting scholars enrich the learning experience

Penn State is encouraging intercultural learning and community education by supporting visiting minority scholars from Puerto Rico and the United States at Penn State's University Park and Lehigh Valley locations.

The "Scholars in Residence" summer program encourages minority faculty to share their experiences and expertise through research, teaching and service. Penn State is hosting seven scholars at its University Park campus. Penn State Lehigh Valley is hosting three.

■ Cecil Giscombe, an associate professor of English at Illinois State University, is consulting on the English Minority Writers Series, participated in the African-American Traditions Seminar in the Arts and Humanities and presented a public poetry reading. His Penn State host is Don Bialostotsky, head of the Department of English. Giscombe will be on campus through Aug. 15.

■ José Esteban Munoz, an assistant professor of performance studies at New York University, taught a workshop for graduate students, consulted with faculty on teaching theories and presented a public lecture and performance. Munoz, also hosted by Don Bialostotsky, was in residence in June.

■ R.S. Fred Nelson, a professor of biology at Jackson State University, led the graduate seminar series,

"Insects of Medical Importance," in addition to participating in a forensic research program. His Penn State host was James Frazier, department head and professor of entomology. He was at University Park for June and July.

■ Eduardo Rivera-Porto, a professor of educational computing at Inter-American University, San Juan, taught the eight-week summer session "Developing Effective Training." His Penn State host is David Jonassen, professor of instructional systems.

■ Carlos Rodríguez, research analyst in higher education at Pelavin Research Institute in Washington, D.C., taught, "Minority Issues in Higher Education" in June. His Penn State host was Roger Geiger, professor of education.

■ Jacqueline Jones Royster, an associate professor of English at The Ohio State University, taught a graduate workshop, gave a presentation at the Conference on Rhetoric and Composition and participated in the African-American Traditions Seminar in the Arts and Humanities in July. Her Penn State host was Don Bialostotsky.

■ David Suleiman, assistant professor of chemical engineering at the University of Puerto Rico, has been conducting research in the Center for the Study of Polymer-Solvent Systems since May. Suleiman's Penn State host

is J. Larry Duda, department head and professor of chemical engineering.

■ Carmen Celeste Morales-Meléndez coordinated the Youth Enrichment Program 2000 and taught a seminar, "Awareness of Multicultural Diversity in the Classroom" during the eight-week summer session at Penn State Lehigh Valley. She is an associate professor of education at the Pontifical Catholic University of Puerto Rico. Her Penn State host is Kenneth McGeary, director of continuing education at Lehigh Valley.

■ Mercedes García Pérez, an associate professor of business English at the University of Puerto Rico, San Juan, has been part of the Youth Enrichment Program 2000, teaching business writing skills to inner-city youth from the Alientown school district during the eight-week summer session. Her Penn State host also is Kenneth McGeary.

■ José A. Gonzalez Robles, associate professor of health at the University of the Sacred Heart in Santurce, Puerto Rico, visited in July. He participated in the Youth Enrichment Program 2000 and collaborated with the Council of Spanish Speaking Organizations of the Lehigh Valley Summer Education Enrichment Program. His Penn State host was also Kenneth McGeary of Penn State Lehigh Valley.

Improving their game

Students gain hands-on experience at Penn State golf courses

By LISA M. ROSELLINI
Public Information

A three-page "wish list" for improving the Penn State golf courses has been whittled slightly with the addition of a new practice area, done in collaboration with students from the turf grass science program.

Every year, the Penn State courses are the site of 78,000 rounds of golf. That's a lot of chipping and putting for a facility that's open, at most, eight months out of 12. The new practice green, built at a cost of \$30,000, was installed by students and a crew from TSG Services, near Philadelphia, who reconstructed bunkers, installed a gravel layer, and shaped and resodded the short game area that will provide additional space for avid golfers working on their game.

The Penn State Golf Courses, which consist of the 18-hole Blue Course, the 18-hole White Course, the six-hole Nittany Course, and now the new practice green, encompass about 320 acres on the University Park campus — making them the perfect hands-on laboratory for students in a variety of majors, including landscape architecture, golf management and turfgrass management.

"We do a lot of experiments on location at the golf course," said Tom Watschke, professor of turfgrass science. "This is an invaluable opportunity for first-hand experience in the field. It's one thing to talk about it in the classroom and another to actually do it yourself, and there is nothing better than having done it yourself. This is a natural fit."

Launched in 1992, Penn State's turfgrass science program was the first of its kind in the nation, preparing graduates for jobs as golf course superintendents, civil engineering firm consultants, athletic field and professional sports complex managers, private business owners, vegetation and lawn care management professionals and sales and service professionals for equipment manufacturers, like Toro. In Pennsylvania alone, the turfgrass industry is a \$1.4 billion business.

Over the past five years, Watschke's students have performed weed control studies at the Penn State courses, extensive probing into insect control and investigations into stunting the seed head formation of grass to make it smoother for putting. In addition, many techniques now used by golf courses worldwide were discovered at Penn State — like using plant growth regulators to aid in renovation and overseeding of the greens. Penn State's turfgrass science program, housed in the agronomy department of the College of Agricultural Sciences, has tapped into a highly competitive market that The Ohio State University and the University of Georgia have now joined.

On this latest golf course project, PennMulch, a material used for mulching turfgrass seedbeds invented by agronomy instructor George Hamil-



You won't find this in books

Students from the turfgrass science program, overseen by Professor Tom Watschke, work to lay down a four-inch gravel drainage base for the new practice putting green. Students in Watschke's classes learn first-hand about the golf industry.

Photo: Greg Grieco

ton, was used to spark quicker seed germination and reduce the potential for soil erosion and weed invasion. Patented by Penn State, PennMulch is now distributed in 30 states and Canada. Other seed experiments also have led to better greens and Watschke said golf courses worldwide now use turf varieties developed at Penn State.

"We like to say that the sun never sets on a Penn State variety, because at any given time somewhere in the world the sun is shining and Penn State turfgrass is being grown," Watschke quipped.

Doug Wert, head PGA golf professional for the Penn State courses, said the work being done by Watschke's students is not only invaluable to the students, but also to the University golf facility. Not only has the new practice area become a reality, but there are currently six professional golf management majors working for Wert, learning the various aspects of the golf world.

"I see a lot of possibility for working very closely with academic programs to make this one of the best courses in the Big 10," said Wert, who has been on board for four months. "This course is not only for recreation but it is an excellent educational tool, particularly for turfgrass students, but it also serves those students taking golf courses. The educational possibilities are endless. From catering to landscape architecture... the professional golf management program (offered through the College of Health and Human Development) is one of the reasons I came here."

Wert praises Penn State for recognizing the business side of golf, which led to the 1991 creation of the golf management major at the University. With nearly 25 million players in the United States alone, golf is a booming industry. In 1994, the last year for which figures are available, golfers spent more than \$15 billion for equipment and play at the nation's 15,703 golf courses, according to statistics from the National Golf Foundation.

"The golf business is changing rapidly and if students have the opportunity to experience those changes first-hand, that will only make them more adaptable and better able to handle the career they are studying for," Wert said. "Not only are students learning here, they're also playing here. During the year, the typical user is a student." The self-sustaining facility overseen by Intercollegiate Athletics offers reduced greens fees for students, faculty and staff.

Wert said future plans for the Penn State Golf Courses include bunker renovations on the White Course and a putting green near the 10th tee on the Blue Course. The PGA professional said he hopes his work with turfgrass science students will help open the door to more collaboration with students in a variety of majors.

"We have one of the top turf grass programs in the nation, we should have one of the top facilities," Wert said.

Health system's Hershey Medical Center named one of nation's best by U.S. News

The Penn State Geisinger Health System's Milton S. Hershey Medical Center was cited by U.S. News & World Report as one of the best hospitals in the nation in three categories, according to its eighth annual rankings, "America's Best Hospitals," in the July 28 issue.

Hershey Medical Center was ranked 31st for its urology service, 37th for gastroenterology, and 38th for cancer treatment.

Additionally, Geisinger Medical Center, Hershey's new partner in the Penn State Geisinger Health Sys-

tem, was ranked 41st for its endocrinology service.

According to a news release by U.S. News & World Report, the listing "assesses care for 17 specialties at 1,800 hospitals nationwide, 135 of which scored high enough to be ranked." Rankings of specialties were based on reputation and various medical data or on reputation alone.

"Any institution listed among the top 42 medical centers in any specialty should be considered a leading center," according to U.S. News, "and the rankings do not imply that other hospitals cannot or do not

deliver quality care."

To produce the rankings, U.S. News, in conjunction with the National Opinion Research Center (NORC), assessed hospital care for 17 specialties. NORC, a noted social science research group at the University of Chicago, mailed confidential questionnaires to a geographic cross section of 150 board-certified physicians in each specialty — a total of 2,550 physicians. NORC asked the physicians to name the five hospitals they consider the best from among 1,800 of the nation's hospitals.

Penn Staters

Farid Ahmed, assistant professor of electrical engineering at Penn State Erie, Behrend College, chaired a technical session titled "Image Feature Extraction and Synthesis for Recognition Applications" at the 1997 International Conference on Imaging Science Systems and Technology. At the same conference he also presented a paper titled "Feature Synthesis for Correlation-based Pattern Recognition."

Gordon Blood, head of the Department of Communication Disorders, received a Distinguished Service Award from the American Speech Language Hearing Association. The award recognized Blood's leadership role in the association's Division of Fluency Disorders.

Joseph L. Cavinato, a member of The Smell College of Business Administration's logistics faculty, taught graduate and undergraduate students and spoke before businesspeople during a recent assignment as a visiting scholar in Sweden.

On a trip funded through a scholarship from the Swedish government, Cavinato, an associate professor of business logistics, conducted seminars for and worked individually with doctoral candidates at Växjö University. He also taught undergraduates at the school and led a program for a group of invited managers.

In addition, Cavinato spoke on "Best Practices in Purchasing and Supply Chain Management" at Linköping University, and conducted a graduate seminar on trends in logistics and purchasing at Lunds University.

Joseph P. Cusumano, associate professor of engineering science and mechanics, has been awarded a summer Osher Fellowship at the San Francisco Exploratorium to develop interactive sculptures for the museum.

The Exploratorium is an interactive educational museum, occupying science, nature, art and technology with more than 550,000 visitors annually and a Web site at <http://www.exploratorium.edu>.

Arlen Etling, associate professor of agricultural and extension education, will receive the 1997 Epsilon Sigma Phi International Service Award. He also received the Outstanding Paper Presentation Award for "A Case Study in Collaborative Consultation" at the Association of International and Agricultural and Extension Education Conference.

Hector E. Flores, professor of plant pathology and biotechnology, gave an invited presentation at a symposium on international agricultural research, sponsored by The McKnight Foundation.

Lonnie Golden, assistant professor of economics at Penn State Delaware County, presented a paper titled "Timing is Everything: Working Time and Proposed Reforms of the U.S. Fair Labor Standards Act Over Time Hours Provisions," at the conference "Law and Economics and the Labour Market" at Utrecht University in Utrecht, Netherlands.

Thomas L. Hemminger, assistant professor of electrical engineering at Penn State Erie, Behrend College, presented "Signal Estimation with Neural Networks for Multipath Mobile Communications" at the IEEE International Conference on Neural Networks in Houston.

Budugur Lakshminarayana, Evan Pugh professor of aerospace engineering, is the 1997 recipient of the International Gas Turbine Institute Aircraft Engine Technology Award presented by The American Society of Mechanical Engineers. This award is made for "sustained personal creative contributions to aircraft engine technology."

Philip Mosley, associate professor of English, communications and comparative literature at Penn State Worthington Scranton, presented a paper titled "Language, Identity, and European Cinema" at the Society for Cinema Studies Conference in Ottawa.

Robert E. O'Connor, associate professor of political science, presented a paper at the annual meeting of the Society for Risk Analysis in Stockholm. Co-authors of "Does Knowledge about Climate Change Relate to Risk Perceptions and Willingness to Sacrifice," include Penn State's **Richard J. Bord**, associate professor in the Department of Sociology, and **Ann Fisher**, senior scientist in the Department of Agricultural Economics.

Eva J. Pell, Steimer professor of agriculture, recently discussed "The Role of Ozone as an Oxidative Stress in Accelerating Plant Aging" at the University of Warwick, England, as part of a "Science of Aging Workshop" sponsored by the Biotechnology and Biological Sciences Research Council.

Donna S. Queeney, director of research and external relations for Continuing and Distance Education, presented a workshop on "Assessing Educational Needs" at the University of Puerto Rico. The workshop was part of the University of Puerto Rico's professional development program for continuing educators and faculty members from all of its campuses.

Raja V. Raman, professor and head of the Department of Mineral Engineering, has been named recipient of the 1997 Howard L. Hartman Award of the Society of Mining, Metallurgy and Exploration Inc. The award recognizes Raman's contributions to the teaching, practice and research of underground ventilation engineering.

Rustum Roy, Evan Pugh professor of the solid state and professor of science, technology and society, gave the opening address to the meeting of the German Ministry for Education and Research in Bonn. Roy discussed his experience with U.S. agencies and at Penn State's Materials Research Laboratory. He also gave a presentation at the Max Planck Institute for Metal Science in Stuttgart, Germany. He discussed the "Three Revolutions in Diamond Synthesis."

Nicholas J. Salamon, professor of engineering science and mechanics, has been elected a Fellow of the American Society of Mechanical Engineers.

Two School of Forest Resources faculty were honored at the 1997 Three Rivers Environmental Awards. **Tom Serfass**, research assistant in the School of Forest Resources, received a Three Rivers Environmental Award in the Higher Education category for his work reintroducing river otters and fishers to Pennsylvania habitats.

William Sharpe, professor of forest hydrology, was a finalist in the Commonwealth/International Education category for his work on drinking water safety, acid rain, water conservation, acid mine drainage and other environmental issues. The awards are sponsored by Duquesne Power and the Pennsylvania Environmental Council.

Gerald A. Smith, physics professor and director of the Penn State Laboratory for Elementary Particle Science (LEPS), and his team of investigators received the 1996 Space Technology and Applications International Forum Outstanding Paper Award from the Institute for Space and Nuclear Power Studies at the University of New Mexico. The award-winning paper is titled "Trapping Anti-matter for Space Propulsion Applications."

The other members of the research team include **Raymond Lewis**, senior scientist; **Michael Holzreiter**, visiting professor; **Jacky Rochet**, technician; and undergraduate students **William Goebel** and **Wendy Schwarz**, who did summer research at LEPS with National Science Foundation support.

Jack Schultz, professor of entomology, presented a lecture on "The Future of Chemical Ecology" and moderated a workshop on the same topic at the

International Chemical Ecology Symposium at Oaxtepec, Mexico.

Pianist **Timothy Shafer**, associate professor of music, made his New York solo recital debut in Carnegie Hall's Weill Recital Hall, New York City. His concert, "Romantic Extremes," featured works exclusively by Franz Liszt and Johannes Brahms. A compact disc recording of the music from the recital is due for release in 1998.

S. Shyam Sundar, assistant professor of communications, won a top-three faculty paper award in the Communication Technology & Policy Division of the Association for Education in Journalism and Mass Communication (AEJMC). His paper, "Does Web Advertising Work? Memory for Print vs. Online Media," was co-authored by **Sunetra Narayan**, **Rafael Obregon** and **Charu Uppal** — all graduate students in the interdisciplinary Ph.D. program in mass communications.

James C. Wambold, professor emeritus of mechanical engineering, has received a 1997 American Society for Testing and Materials (ASTM) Award of Merit, which is accompanied by the title of Fellow. The ASTM cited Wambold for outstanding contributions in the development of standards for pavement skid resistance and roughness measurement and leadership.

Wambold has played a role in the development of seven approved ASTM standards and two draft standards; organized two symposia; and edited or written several technical standards.

C. Eugene Wayne, professor of mathematics, is the recipient of the 1997 Award for Distinguished College or University Teaching. The award was presented by the Allegheny Mountain Section of the Mathematical Association of America in recognition of his extraordinary teaching accomplishments.

The book *Eastern Deciduous Forest Ecology and Wildlife Conservation*, written by **Richard H. Yahner**, professor of wildlife conservation, has been selected by the Conservation Education Awards Committee of The Wildlife Society to receive the 1997 Conservation Education Award in the book category.

Vladimir M. Zatsiorsky, professor of kinesiology and director of the Biomechanics Laboratory, recently served as a physical fitness consultant for the Chicago Bulls, a professional basketball team.

Plants' defenses are being used against them

By ANDREA ELYSE MESSER
Public Information

With their roots stuck in the ground, the only way plants can attract pollinators or deter predators is to produce chemicals that entice beneficial organisms and repel or destroy dangerous ones, according to a researcher.

Defense compounds, colors and flavors have commercial uses, but the plants or plant cells must be coerced into producing them in reliable and sufficient quantities in manufacturing settings. These potential products include vanilla, morphine, taxol, quinine, ginseng and shikonen — a red dye.

"Plants or plant cells only produce these secondary metabolites when they need them, and manufacturers would like a reliable way of producing these chemicals in the factory," Gurmeet Singh, assistant professor of chemical engineering, said. "What we are trying to do is bluff the plant into thinking it is being attacked," Singh said.

Singh's approach, called elicitation, is to grow plant cells in nutrient solutions and to force the cells to produce secondary metabolites by adding dead, cell-wall fragments of fungus. If live fungi were used, they would kill the plants.

"The fungi fragments turn on the secondary metabolite pathways," Singh said. "With this type of prodding we can increase production as much as 500-fold."

Singh said it is not just the defensive chemicals that react to the invasion of fungus, but that flavor and color chemicals also are produced. These same chemical pathways also are turned on if a plant is physically wounded.

In the manufacturing environment, producers want to use just the right amount of fungus fragments to optimize chemical production.

"If manufacturers add too much, they would waste expensive fungus and risk damaging the plant cells, but if they add too little, they might under-exploit the cells," Singh said.

The scientist is looking at the fungus concentration in the liquid and the complicated interaction of this elicitor with the cells to come up with commercially useful formulas for elicitor addition.



Gurmeet Singh, assistant professor of chemical engineering, is working on a way to trick plants into producing their natural defense compounds, colors and flavors in greater quantities because they have commercial uses.

Photo: Greg Grieco

He also is looking at a natural plant compound, methyljasmonate, and its interaction with fungal elicitors. Methyljasmonate is a chemical produced by most plants and is thought to be used to signal other plants. A very volatile compound, methyljasmonate quickly diffuses through the air where it can be sensed by other plants. The exact interaction conveyed is unknown.

"However, when methyljas-

monate is mixed with the fungal elicitor, the amount of elicitor needed decreases dramatically," Singh said. "Since methyljasmonate is much less expensive than fungal elicitors, this could help manufacturers."

Singh does not know the mechanism involved in methyljasmonate's enhancement of fungal elicitors, but he does know that methyljasmonate by itself does not elicit production of secondary metabolites.



Researchers battle against artillery fungus

An artillery fungus, commonly found in wood-based landscape mulch, has a deadly aim, blasting homeowners with \$1 million in damage claims last year in Pennsylvania alone. The fungi, which barely take up the space on a quarter of a match head, violently eject spore masses with a mighty blow of 1/10,000 horsepower force shooting spores as far as 20 feet. The masses adhere to any surfaces they contact, including cars and homes, and cannot be removed from the surface without damaging it. The spore masses are viable for at least 10 years.

Researchers in the College of Agricultural Sciences, including Larry Kuhns, professor of horticulture; Don Davis, professor of plant pathology and Beth Brantley, graduate student in plant pathology, are involved in a five-year study of artillery fungus. The study, supported by the Pennsylvania Department of Agriculture, examines the conditions under which Pennsylvania's native wood can successfully be used as fungus-free mulch. Although the fungus is found almost everywhere in the United States, it is a major problem for New Jersey, Ohio and Pennsylvania because of the type of wood available.

Although the research is in its preliminary phase, Kuhns comments that the fungus seems to grow on either wood chips of "double shaded" bark mulch, which is dark, thin-stranded mulch. The researchers also will be looking at ways to remove the fungus without causing damage to adhered surfaces.

Learn how to protect water resources

The College of Agricultural Sciences and the Department of Agricultural and Biological Engineering funded a 23-minute video titled "The Groundwater Protection Action Group: A Roadtrip to Success," to explain ways to make a groundwater protection action group successful. It is the third educational video in a four-part series about protecting water resources.

For an order form or more information about the videos or groundwater, contact the Department of Agricultural and Biological Engineering at (814) 865-7685 or visit the department's Web site at <http://server.ave.psu.edu/>.

Exxon gives matching gift

Penn State has received more than \$111,000 through a gift matching program from the Exxon Education Foundation. The funds represent the 1997 installment from the foundation's 3-to-1 match of gifts to the University by Exxon employees, retirees and surviving spouses.

This year's total of 73 gifts will support a variety of Penn State programs of the donors' choice. Since 1966, Exxon gifts to Penn State have totaled more than \$4 million.

Through the overall gift matching program, individual donations of up to \$5,000 each year are matched at the 3-to-1 ratio for institutions in the United States with which the donors have an affiliation. The foundation established the program in 1962 and has provided more than \$170 million to more than 1,000 institutions.

In April, the foundation announced that this year's \$13.5 million in unrestricted grants to 885 colleges and universities means the foundation has the largest such program nationally for the third year in a row. Overall, the Texas-based foundation has given more than \$443 million in support of American education since its founding in 1955.

For the Record

In the July 24 *Intercom*, some dates for Ag Progress Days and a bus schedule were listed incorrectly. The dates of this year's event are Aug. 12-14. There will be free CATA bus service all three days. The shuttle departs from College Avenue and Allen Street (near the Corner Room restaurant) at 9:30 and 11:30 a.m. Aug. 12-14. On Aug. 13, when Ag Progress Days remains open until 8 p.m., there will be an additional departure at 2:30 p.m. Departure times for the return trip are at noon, 3 and 4 p.m. Aug. 12-14, with a 7 p.m. shuttle on Aug. 13.

In an appointment story on page 7 of the July 24 issue, some background information on Penn State Shenango's newly named instructional specialist, **David Kuskowski**, was inadvertently omitted. Kuskowski earned a master's degree in education from Youngstown State and a bachelor's degree in education from Ohio Dominican College.

The contact person listed for the Hispanics for Academic Progress program offered through Summer Sessions was incorrect in the July 24 issue. The correct contact person should be **Maria Schmidt** at (814) 865-1773.

Due to a source error, the job title for **Kevin M. Moroney** was listed incorrectly in the "Promotions" listing in the July 24 *Intercom*. His correct title is director, graduate education and research services in Computer and Information Systems-Center for Academic Computing.



Rip snortin' good time

These two piglets, who just arrived on the University Park campus, will soon be viewing video games as part of a research project under the direction of Stanley Curtis, professor of animal sciences. Curtis is looking into the mental processes of pigs.

Photo: Greg Grieco

Cable TV museum moving from Penn State to Denver

The National Cable Television Center & Museum Inc., Denver, Colo., and Penn State recently announced a plan under which existing programs and activities formerly conducted by The National Cable Television Center & Museum at Penn State will be continued by a successor organization at Denver. The agreement also provides for the transfer of certain assets of the original center and museum to the Denver center.

The Organization of Cable TV Pioneers which, jointly with Penn State, established The National Cable Television Center and Museum at University Park in 1985, decided in 1993 to reorganize the center as a free-standing, independent institution.

The new agreement provides, among other things, that the library and museum collections formerly housed at Penn State be relocated to Denver with special provisions

for the retention at Penn State of copies of selected archival and research documents and for expedited access for Penn State students and researchers to the collections at Denver. Transfer of the collections to Denver should be completed by the end of 1997.

The Cable TV Pioneers in 1991 endowed a Chair in Cable Communications Studies in Penn State's College of Communications. Under the agreement, the Denver center and museum would complete funding of that endowment as planned at the time of the gifts. Three endowed telecommunications lectures also will continue: the Donald W. Levenson Memorial Lectures in Cable Engineering; the Marian B. Gardner Memorial Lectures in Cable Accounting and Finance; and the Edward J. Foust Memorial Lectures in Cable Communications.



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